SERA

Repeater Journal

Amateur Radio FM and Repeaters in the SouthEast

The Official Voice of SERA, Inc.

August, 2004
published quarterly

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SERA says: TONE

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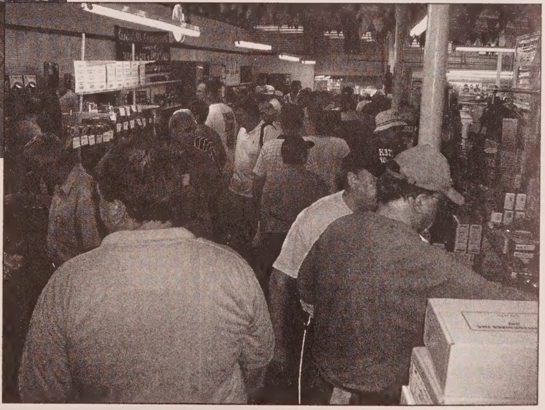

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SERA

THE SOUTHEASTERN REPEATER ASSOCIATION

Providing voluntary frequency coordination for Amateur Radio repeaters in Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee, Virginia and West Virginia

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callsign@sera.org

Don't know who to contact? Send mail to: **info@sera.org**

or call the ***SERA Hotline:* 888-HAM-SERA**
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SERA MEMBERSHIP

Full Repeater Membership

(A Membership for Repeater Owners & Sponsors)

Any repeater owner or club may join SERA as a Full Member if they have a properly coordinated and operating repeater on the air. A Full Membership application, coordination information (if not on file), and the correct membership fee should be submitted.

Two individuals representing the full member repeater, named and listed on the application by the owner, receive the *Repeater Journal* each quarter.

The two Full Member Representatives have voting privileges in SERA elections and may be eligible to hold elective offices within the organization. The full member repeater is also recognized as a SERA supporter in the repeater index with a ☺ symbol. A Full Member application is available in this issue of the Repeater Journal, and on the SERA web site: **www.sera.org**.

Full Member dues are $20/year, pro-rated by quarter. All full memberships expire on December 31st of each year.

Associate Membership

(A Membership for Repeater Users)

Amateurs Radio operators, especially repeater users, are invited to join SERA as Associate Members. Only $10 per year will enable you to support the organization and receive the *Repeater Journal*. Associate Members may hold appointive offices within SERA, but do not have voting privileges.

Associate Membership begins in the quarter you join, and dues are not pro-rated. Renewals are due in the same quarter in subsequent years.

REPEATER JOURNAL MAILING

The *Repeater Journal* is mailed Bulk Rate during the first week of the cover date. Delivery takes one to two weeks. Notify the **editor** if you have not received your copy by the 1st of the following month. **The Journal is *not* forwarded to new addresses. If you move, send your new address to the editor!**

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SERA Summer Board Meeting Report

SERA Board votes for mandatory tone

If your repeater doesn't use tone access, don't complain to SERA about interference. And if you complain to Riley instead, when he asks SERA if you're coordinated, SERA's answer will be a qualified "no."

That's one of the decisions reached by the SERA Board at their summer session at a new location in Sieviereville, Tennessee in June. The Board also amended the Coordination Policy & Guidelines (CP&G) to make it easier to decoordinate repeaters that are not on the air, looked for ways to improve the speed and efficiency of coordination, supported the larger (and more expensive) *Repeater Journal*, and shuffled a few positions. Here are the details:

ALL TONE ALL THE TIME

Mississippi Director Steve Grantham AA5SG moved that SERA amend the CP&G's to require tone (CTCSS or DCS) on receive and transmit on all new FM voice repeater coordinations, and on all existing voice repeaters by July 1, 2006 (two years), on all VHF/UHF bands.

In discussion, Board members asked what would happen if a repeater owner chose to continue to operate without tone. Would they be automatically decoordinated? The answer was "no, but...". SERA would not entertain an interference complaint from the owner of any repeater who chose to remain carrier access.

Some repeater owners experiencing interference from a co-channel neighbor bypass SERA and send a complaint directly to Riley Hollingsworth at the FCC. Hollingsworth usually asks the owner if the repeater is coordinated, and verifies that with an inquiry to the coordinating body (SERA typically responds to several such inquiries each year). In this case, SERA's reply would be that the repeater had been coordinated, but the owner chose to operate outside the conditions of coordination by not using tone access. SERA would expect that to be interpreted as a "no."

A few SERA staffers wanted to point out that tone was not a cure-all for repeater interference problems. Tennessee Assistant Director Tim Berry WB4GBI discussed the time and expense involved for a repeater owner, especially an owner who had several repeaters that were not already set up for tone. He also noted that tone did not really solve problems, it only masked them. A strong enough interfering signal would not key up a tone-access repeater, but it would still degrade or block signals on the input. *Repeater Journal* Editor Gary Pearce KN4AQ commented that tone was "traveler hostile" – that is, someone driving cross-country has a hard time keying tone access repeaters. See his SQUELCHTALE editorial on page 60 for a complete discussion.

Repeater Journal COVER STORY

Motion passes: the motion passed unanimously, and becomes part of the CP&G. SERA has a "tone plan" with several tone frequencies prescribed for each geographical area (www.sera.org/ctcss.html#District). Some repeaters follow it, and some don't. New repeaters would be expected to choose a tone from the plan, but non-conforming existing repeaters would be grandfathered.

PAPER SHREDDER?

The SERA Frequency Coordinators are mounting an assault on paper repeaters – repeaters that are on the books but not on the air. The CP&G's give the Coordinators all the ammunition they need (but mostly haven't used). Tennessee Director Andy Masters NU5O filled in one small crack in Policy 17 with a motion that allowed SERA to decoordinate a repeater if the owner failed to maintain a current address with the FCC or SERA.

GEORGIA TESTS ON-LINE COORDINATION FORM

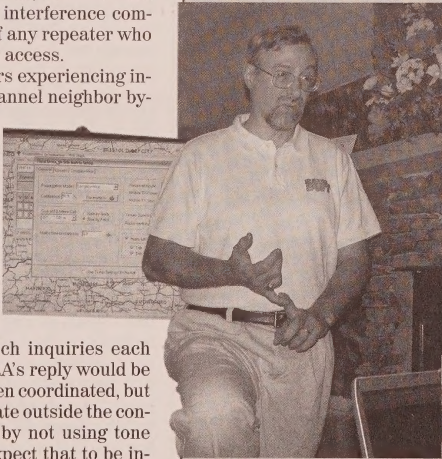
Georgia Vice Director Pete Seabolt N4KHQ demonstrated a new on-line coordination form created by new Assistant Director Phil Heaton N4BBQ. The form, which can be accessed from the Georgia page on the SERA web site (www.sera.org/ga.html) will allow Georgia repeater owners to complete and file SERA Form 03 on the web. Until the trial is complete, repeater owners in other states will still have to file Form 03 by mail with their state coordinator.

Back to school

Class was in session once again for the SERA frequency coordinators on Saturday morning. This time, Peter Moncure from RadioSoft presented the ComStudy training.

ComStudy is a sophisticated radio coverage mapping program that SERA uses to predict repeater coverage. Moncure told the coordinators that their feedback on the program was quite valuable to RadioSoft, as the hams tended to wring it out and push its limits more than professional users.

SERA member repeaters can ask their coordinator for a coverage plot of their repeater, which will be done on a time-available basis.



WA4ETE photo

RadioSoft's Peter Moncure holds the attention of the SERA coordinators as he explains some of the finer points of the ComStudy program.

Don Williams W4VT receives a plaque honoring his six years of service as SERA President from current President Roger Gregory W4RWG

WA4ETE photo

RJ EXPENSE STUDIED

Repeater Journal editor Gary Pearce KN4AQ reported that both the size and cost of the magazine had gone up since he became editor in 2001. Contributing factors included a full slate of state correspondents, additional columnists, more "white space" making the magazine easier to read, but bigger, and two additional pages in the Repeater Index since his first issue in 2001.

Pearce reviewed options, such as limiting the size of columns or making changes to the Index, but the Board generally liked the *Journal* as-is. The associate member dues increase ($^{\$}$10/year, which began in January, 2004), was keeping SERA in the black for now, and SERA President Roger Gregory W4RWG appointed a committee to review options for the *Journal*.

PERSONNEL DEPT.

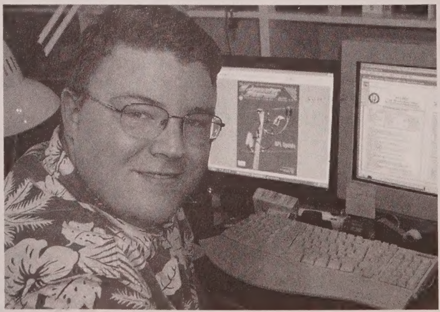
SERA welcomes Phil Heaton N4BBQ as a new Assistant Director for Georgia, and Alan McClaine KA4BNI as an Assistant Director for Tennessee. Their pictures and background info are in their respective state news columns.

SERA NC Vice Director Frank Lynch W4FAL, who was elected as a board member of the National Frequency Coordinator's Council (NFCC), announced that he has resigned from that post. The SERA Board wondered if SERA should recommend a replacement (W4FAL didn't hold a "SERA" seat on the NFCC – there isn't such a thing – but SERA is a large voting bloc in the group). SERA Secretary Alex Hedrick N8FWL said he would contact the group to see what they recommend. Lynch also said he will drop the duties of SERA Database Manager, and will be hosting a SERA booth at fewer hamfests.

The *Repeater Journal* welcomes new Associate Editor Chris Plumblee KG4CZU. Chris is a recent graduate from Wake Forest University in Winston-Salem. He will be helping Editor KN4AQ assemble the magazine each quarter.

Chris was first licensed in 1999, but has been exposed to ham radio all his life through his dad Steve WA4FJK. While attending Wake Forest University, he got into contesting through the Forsyth ARC in Winston-Salem, and helped form a club at the school. Chris graduated this year majoring in Communications, and gained extensive publishing experience working on the school newspaper.

As this issue of the *Repeater Journal* goes to press, Chris has just moved to Fayetteville where he's a management trainee for 84 lumber. He still has his eye on the "glamorous world of publishing," as he describes it. He's not married, but his girlfriend just got her ham license and the two celebrated by attending the Western Carolina Hamfest in Waynesville. ■



Chris Plumblee KG4CZU of Fayetteville NC is the new Associate Editor for the Repeater Journal

FCC proposes permitting aux links on two meters

The FCC has proposed permitting auxilary links on the two-meter band, following a petition by Kenwood for a rules change that would make its Sky Command system legal in the US. Aux links are currently permitted only on frequencies above 222.15 MHz. This proposal is among many in a wide-ranging NPRM released as Docket 04-140 on April 15, 2004.

IRLP/ECHOLINK AFFECTED

If the NPRM becomes a rule, it would have a significant impact on the use of two-meter stations as repeater links, particularly for repeaters connected to the Internet for IRLP and Echolink operation. Over the past two years, many hams have linked computers connected to IRLP and Echolink to their repeaters "the easy way," by connecting the computer to a base station radio transmitting on the repeater input.

SERA considered those to be auxiliary links, not legal on two-meters. SERA also felt such links were not a good idea on 220 or 440 either, because of the possibility of a high-occupancy automatically controlled transmitter causing interference to a co-channel repeater during a band opening. (SERA's position on two-meter aux links was published in the February 2003 edition of the *Repeater Journal,* and is available as a PDF file on the home page of the SERA web site.)

In the NPRM, the FCC states "because we have no basis to conclude that auxiliary stations transmitting on the 2 m band would cause harmful interference or that user coordination would not be possible, we believe that Kenwood's proposed rule change will be consistent with our flexible-use policy in the amateur service."

If the NPRM becomes a rule, SERA will probably include two-meter auxiliary links as part of the coordination of a repeater. Details were not final on how the coordination will be accomplished, but repeater owners can expect that SERA will ask for the same information about the link transmitter than it does about the repeater transmitter – frequency, ERP, antenna height and orientation, etc.

The point will be to carefully contain the link signals so they have little chance of affecting a co-channel neighbor. A simple connection between a repeater user's computer and base station radio will not be coordinated. Repeaters that operate or permit a link that interferes with a co-channel neighbor would risk losing coordination.

The NPRM also proposes permitting spread-spectrum on bands from six-meters up, and many other rules changes.

Kenwood's Sky Command is a system that permits remote operation of an HF station using a dual-band base radio. Since most dual-band radios are 144/440, Kenwood pushed for aux operation on 144. ■

Young East Tennessee ham stays cool in emergency

David Bower K4PZT

Jordan Webb K4AVG, a teenage amateur radio operator, used his skill and experience in an attempt to save a life when a student drowned in a pool of deep water near Abrams Falls in the Smoky Mountains on April 30.

Jordan and fellow students were on a school field trip in a desolate area of the mountains when the drowning incident occurred. Jordan had packed his two meter HT for the outing and had it available when the emergency happened. Cell telephones typically do not work in this mountainous area, and ham radio was used to make the contact for help.

WATE 6
Jordan Webb
AMATEUR RADIO ENTHUSIAST

He mentioned to a teacher that he could probably radio for help, and was given permission. Jordan quickly retrieved the HT from his backpack and hiked a short distance up a hill to radio for assistance. As a result of Jordan's quick action, emergency personnel were able to respond much faster. Jordan contacted Jim Bond K6SPY on the East Tennessee 146.940 repeater and Jim, in turn, called the appropriate authorities who quickly dispatched an emergency team to the location. Jordan is 13 years old, and has been a ham for about one year.

Jordan was interviewed by three Knoxville television stations following the emergency situation in the Smoky Mountains. Jordan demonstrated his Icom IC-V8 HT during the interviews and explained how ham radio was used to request emergency assistance. Jordan handled himself extremely well during the three interviews, and was very professional on camera. The story was also reported in several local newspapers and in *QST*. Amateur Radio Newsline carried a nice piece reported by Bill Pasternak WA6ITF.

Several months ago, Jordan started the "Youth Amateur Radio Net" (YARN) on the East Tennessee 147.300 repeater. His interest in HF is growing and he purchased a used Tempo vacuum tube transceiver (because of its low cost) at the Knoxville Kerbela Hamfest this past winter, and has been restoring it. Jordan is a member of several East Tennessee amateur radio clubs and is active in ARES. He participated in the recent ARRL Field Day with the Radio Amateur Club of Knoxville and got lots of HF operating experience.

At the June 12 Knoxville Hamfest, Electronics Exposition and ARRL Tennessee Section Convention, Section Manager Larry Marshall WB4NCW officially presented Jordan Webb an "ARRL Emergency Communications Commendation" for his "Meritorious Ser-

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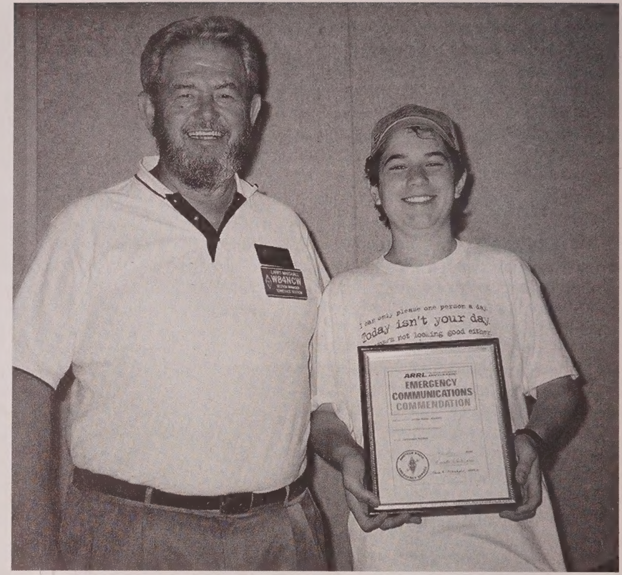
vice." Jordan was also presented a plaque for his outstanding service by President Gary Buczkowski AG4XO at the Middle East Tennessee Emergency Radio Services (METERS) May meeting.

Jordan spoke to a Maryville, Tennessee middle school class about amateur radio this past May, along with "adult ham" Bob Wilson KK4XA about the exciting hobby of amateur radio. This event was the subject of a feature story aired by Knoxville television station WBIR. Jordan had a display of ham radio equipment, amateur radio materials and even sent some Morse code for the class to hear. Jordan also related how he provided communication services when the student drowned in the Smoky Mountains.

Jordan got into amateur radio because his grandfather, WB4NLT, encouraged him to get his ham ticket. He is active on 2, 6 and 440 and is interested in getting on HF soon. His new call is "K4AVG," and the "I" is dropped. He has recently acquired a newer solid-state HF transceiver in anticipation of low band operation.

Jordan Webb is an excellent example of how young amateur radio operators are actively participating in our hobby and representing it to the community. We in East Tennessee are all very proud of Jordan Webb and his involvement in amateur radio.

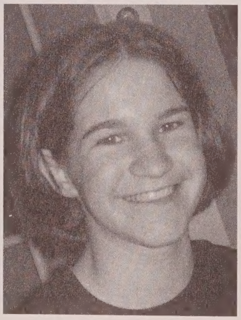
Postscript: When I talked with Jordan Webb following the emergency event, he related to me that he "charged" the battery for his HT the night before the field trip to the Smoky Mountains. Something we all should remember before going on a trip! ■



TN Section Manager Larry Marshall WB4NCW presents an ARRL Emergency Communications Commendation to Jordan Webb K4AVG.

SERA hams win ARRL awards

Andrea Hartlage KG4IUM receives Hiram Percy Maxim Memorial Award for exceptional hams under 21 years old



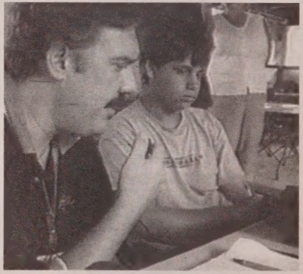
KG4IUM

The ARRL Board selected Andrea Hartlage KG4IUM of Grayson, Georgia as one of two winners of this year's **Hiram Percy Maxim Memorial Award** (the other winner is Jay Thompson W6JAY of Santa Ana, California). The Maxim award goes to a licensed ham under 21 whose "accomplishments and contributions to both the community of Amateur Radio and the local community should be of the most exemplary nature."

Andrea learned about ham radio from her dad, Scott KF4PWI, who listened on a scanner while he studied for his first license. Not yet eight years old, she helped him at public service events, and at eleven "reluctantly" attended her first Field Day. "I was even more reluctant to leave," she said. 18 days of study yielded her Tech license. She jumped in with both feet, and now edits the youth column on the ARRL web site, among many, many other ham activities. At 14 she earned her Extra.

Andrea concludes, "I would not even be a ham today without the help and support of countless people. Thank you to my mom (Lisa), dad, my sister Laura, and to every single ham who makes up my Amateur Radio family for helping and encouraging me along the way."

Michael Duff KG4SLH receives Philip J. McGan Memorial Silver Antenna Award for Public Relations



KG4SLH (left) at Field Day

If there's anybody in South Carolina who doesn't know about Amateur Radio, it's not Mike Duff KG4SLH's fault! Mike has been tireless as Section Assistant Public Information Coordinator and Public Information Officer for the Florence Amateur Radio Club, issuing press releases about ham activities, doing interviews for the press, speaking to the public at civic clubs, setting up information booths at public events, and arranging ham radio displays at public libraries. It's no wonder the ARRL Board selected Mike for the **2004 Philip J. McGan Memorial Silver Antenna Award** for public relations.

KG4SLH's ham radio display at the Darlington SC library

FCC says Progress Energy BPL interference not harmful

Gary Pearce KN4AQ

FCC engineers, including Bruce A. Franca, Chief, Office of Engineering and Technology, investigated the BPL interference complaint filed against Progress Energy Carolinas (PEC) by Wake County North Carolina EC Tom Brown N4TAB and concluded that:

> the Progress Energy BPL trial in the Raleigh area is in compliance with the Commission's rules, and that the measures implemented to notch frequencies used by the Amateur Radio Service to avoid the potential for harmful interference are effective.

The FCC investigation took place between June 28 and July 2, 2004, based on the complaint dated April 27, 2004. The reply letter to Brown quoted above was dated July 22, 2004, and received by e-mail that day.

The letter said that the FCC team "undertook extensive testing and measurements of Progress Energy's BPL system deployed near Raleigh in the areas described in your complaint." In particular, the FCC looked at the BPL signal radiated in the 12-meter ham band where Amperion, the equipment vendor, placed a "notch" to reduce the signal. They found the BPL signal in the notch to be "23.4 to 25.0 dB below the Part 15 limits" and concluded that "notching at this level is sufficient to eliminate any signals that would be deemed capable of causing harmful interference... to amateur operations."

Listening with test equipment and "a high quality amateur receiver," they found "little field strength or observable signal levels in the notched bands." The letter did not describe the antenna connected to the receiver, or the precise location of the monitoring station. The FCC did find a somewhat higher signal in a notch covering the low end of the 10-meter band, and directed Progress Energy to widen the notch to protect amateur operation there.

WHAT'S HARMFUL?

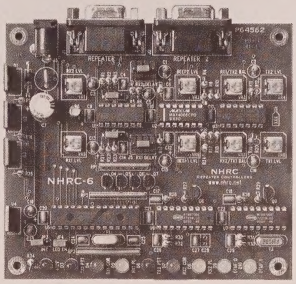
The Amperion BPL system places carriers on the power line every 1.1 kHz across 6 MHz of HF or low VHF spectrum. Each carrier is modulated to carry a small amount of data, and the sum of the data on all the carriers yields more than 20 Megabits of throughput. A side-effect is that the carriers radiate radio signals that have been received by hams a mile or more from the power line. A new 6 MHz spectrum block is needed at least every 2000 feet.

When the Progress Energy trial system was initially installed, full-strength BPL signals covered the 12 and 10-meter bands, and most of the spectrum in between. Following complaints from Brown and others, Amperion moved the signals mostly off the ham bands. On July 22nd, the signals on the line that the FCC tested ran from 21.535 to 28.01 MHz, with a notch between 24.835 and 25.5 MHz (the 12-meter band runs from 24.89 to 24.99 MHz).

The problem that Amperion has been having is that the notch doesn't completely eliminate radiated signals. A weak signal is still audible. And the spectrum blocks used by BPL don't begin and end "cold." They ramp up and down with weaker signals that can extend 100 kHz or more from the edge of the intended signal.

NHRC

REPEATER CONTROLLERS



NHRC-6

Dual Repeater Controller

The NHRC-6 is an advanced, low cost dual repeater controller. It has a highly integrated design, using state-of-the-art components, which results in a powerful controller with a low parts count. This increases reliability and lowers cost.

This controller can be used for two duplex repeaters, a duplex repeater with a link radio, or to build a bi-directional cross band repeater with simplex radios.

NHRC-6 Features

- Two radio ports that can support the following configurations:
  - Two duplex repeaters
  - Duplex repeater with link radio
  - Two back-to-back simplex radios
- Carrier, Carrier and CTCSS, Carrier or CTCSS and DTMF access modes
- "Intelligent" ID algorithm
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- Six user commands
- Five saved setups
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- Jumper-selectable receiver de-emphasis
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There is no question that a full-strength BPL signal can cause harmful interference, defined by the FCC as "interference that seriously degrades, obstructs, or repeatedly interrupts a radiocommunication service." But what about the "fringe" signals in the notched spectrum? Based on their tests near Raleigh, the FCC engineers said this was not harmful.

HAMS NOT INVITED

The hams involved, Brown, SERA NC Vice Director Frank Lynch W4FAL, and I, don't agree with that conclusion, and we are not happy with the way the tests were conducted.

The biggest problem is that we were not invited to participate in the investigation. The first we heard of it was when Tom Brown received the FCC letter. While we are sure the FCC engineers are highly competent, they missed a major point that Brown made in his complaint, and focused their investigation on some narrow parameters. (Progress Energy was aware of the test and supplied some information, but was not present. PEC's Bill Godwin said the FCC engineers "wanted to do this on their own.")

The FCC letter says, "In no instances were signal levels found that would cause serious degradation, obstruction, or repeated interruption of the communications of amateur mobile stations or the fixed stations identified in your complaint."

The distinction between mobile and fixed stations is important. Brown's major point was that, because there are no hams living in the Progress Energy trial area, the mobiles were acting as "stand-ins" for the absent home stations in the immediate vicinity of the power lines, albeit with inefficient mobile antennas. The FCC appears to have considered them only as mobiles.

We included the addresses of three hams who were receiving weak BPL signals at home following our initial observation of the installation last January, all a half-mile or more from the trial, and all listening on dipoles. It's no surprise that the FCC heard no BPL signals in the vicinity of those addresses. The letter doesn't say what the FCC used as an antenna in those locations, but they did not use the large dipoles available at those home stations.

What is completely missing is an analysis of the interference potential of the notched BPL signal to a ham with a normal or large antenna array in the immediate vicinity of the power line – within a block or two.

What is also missing is any comment on the BPL signal that remains at full-strength across the top 60 kHz of the 20 meter band on another power line that was also mentioned in Brown's complaint (and is still present as of July 22), and any reference to interference to shortwave broadcasting, which remaines unchanged.

EXTRAPOLATE, DON'T CELEBRATE

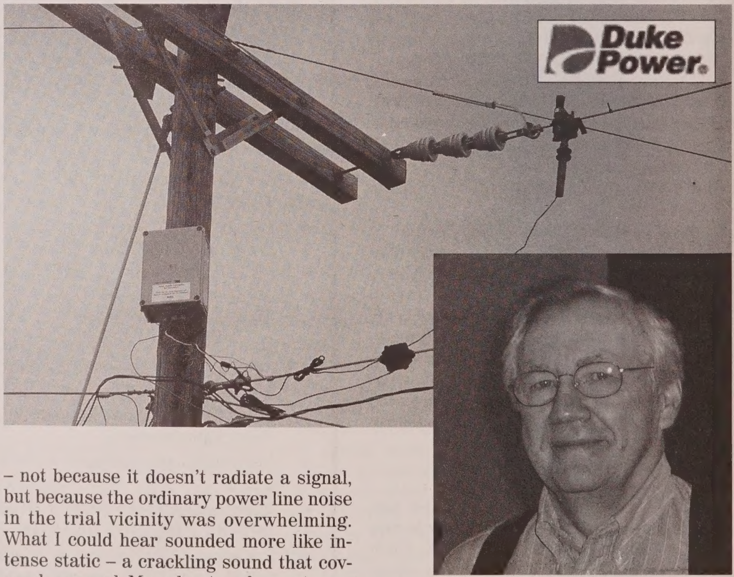
The BPL industry may see this as a major victory in the Hatfield-McCoy skirmish between them and ham radio. That would be unfortunate. The notched spectrum probably does solve most problems with BPL for true mobile operation inside the ham bands. But as Frank Lynch W4FAL points out, "hams with home stations with reasonably good antenna systems who live where there are injectors within a half mile on overhead power lines are likely going to experience problems if the utility uses Amateur Radio spectrum to deliver BPL to it's subscribers." That's an improvement over the two-mile range the original BPL signal had, but it's not good enough yet.

With no hams in the test areas, the hams have had to extrapolate the available observations to predict the consequences if BPL were deployed widely. The BPL industry is probably doing the same thing. They're just not talking about it.

CHARLOTTE TRIAL DEPLOYED

Duke Power has turned on their trial in a neighborhood on the south side of Charlotte, North Carolina. I got a brief look at it during a visit in June. Duke is testing a Main.net system, with an RF signature considerably different than the multiple-carrier system that Amperion uses.

It was difficult to hear the Duke system – not because it doesn't radiate a signal, but because the ordinary power line noise in the trial vicinity was overwhelming. What I could hear sounded more like intense static – a crackling sound that covered several Megahertz of spectrum, though most of it was buried in the more hash-line power line noise.



Duke Power BPL system on pole in Charlotte; former BPL "Poster Child" Jim Spencer W0SR

Tim Slay N4IB, who is both a Duke Power engineer and an active ham in the Mecklenburg Amateur Radio Society, acknowledged the power line noise, and said it was interfering with their ability to analyze the RF interference potential of the BPL signal. Duke engineers were going to try to eliminate the power line noise. I'll have more on that in the November *Repeater Journal.*

REJECTED IN CEDAR RAPIDS

Alliant Energy cut short their BPL trial in Cedar Rapids, Iowa. The ARRL reported that the trial, using Amperion equipment similar to that used by Progress Energy, was halted on June 25th, in part due to interference complaints, but mostly because Alliant accomplished their objectives early. Alliant's BPL Project Leader Dan Hinz says the company isn't planning on pursueing BPL at this time.

The ARRL had filed a complaint with the FCC against Allient on behalf of Jim Spencer W0SR. Spencer is one of the few hams who actually lives in the immediate vicinity of a BPL trial, with an injector about 500 feet from his antenna. League CEO Dave Sumner K1ZZ called Spencer the "Poster Child" for ham radio and BPL. Amperion had tried a variety of techniques to reduce the interference Spencer was receiving, but was unable to satisfy Spencer, who said he was always receiving strong interference on one or more bands. The FCC had not acted on the ARRL complaint, which requested that the system be shut down.

Spencer and area hams had worked closely with Alliant, and he said they were trying to keep the "gloat factor" down.

The shutdown hasn't discouraged the BPL industry. A new trial is announced about every week. ■

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* (6) Output Switches
* Fan Control
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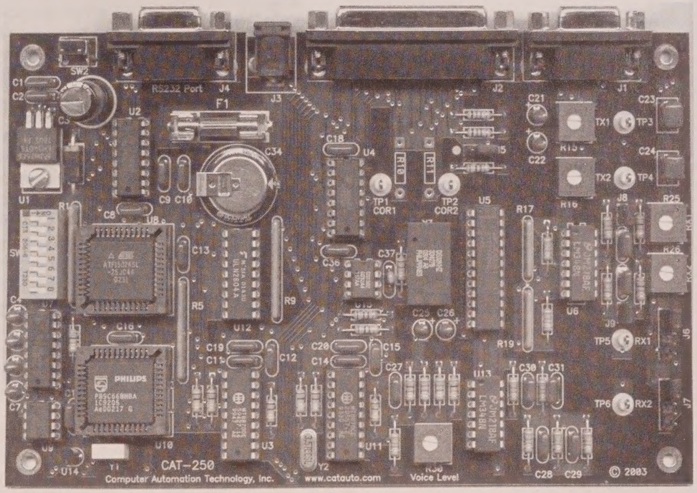

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Internet Linking

Danny Musten
KD4RAA
kd4raa@sera.org

Using VoIP on your repeater

There are several things to take into account when considering whether to add Internet linking to your repeater. The primary consideration is how you intend to use a Voice over Internet Protocol (VoIP) link.

If your motive is to connect your local machine to the outside world and leave it open for connects, Internet linking is ideal for an underutilized repeater that you or your club own. A quiet repeater can suddenly be active with QSO's from all over the world. From experience I know that keeping your repeaters constantly connected to one of the high activity QSO conferences or reflectors can soon have you replacing finals in the PA.

However, if there is already significant local activity, you may be overwhelmed with DX contacts, occasional curiosity seekers and even local users wanting to check in with their relatives and friends from outside the repeater's coverage area. If your primary repeater stays active with constant local traffic, coordinating your VoIP link to a quieter repeater might be a solution. Many clubs and individuals have also built repeaters dedicated for Internet linking and advertise such to attract visitors and promote "good will" participation. It is a vision of the creators of the software to one day have Internet links open in every major city for operators to access.

If you are intending to participate in some of the emergency response nets, SKYWARN and Hurricane Center nets, ISS contacts and special event nets like, JOTA or Kids Day, etc… and want your local users to participate, then you may consider an on-demand VoIP link to your repeater. Travelers certainly enjoy checking in with their home nodes via IRLP or Echolink. Others use it just only for linking regional repeaters, restricting international traffic and having it available just for special nets. Control operators may also implement prefixes or access codes that help moderate activity.

As you begin to set up your link, it is good practice to employ CTCSS (PL) or digital squelch on the audio path from your repeater to your link radio. The purpose is to allow only voice audio over the system without all of the courtesy tones, IDs and hang times. (We do not want to hear the temperature or the time, much less the bumblebee courtesy tone from all of the nodes we are connected to, and they don't want to hear yours.) This is especially annoying and is generally considered unacceptable during a VoIP net where large numbers of repeaters can be simultaneously connected.

Repeaters should be configured to send PL ONLY when PL is present on the receiver side of the controller – that is, only when a user's signal is detected (a Com-Spec TS64 tone board can be configured to do all of this economically and effectively). You should send audio to the Internet only when your link radio responds to PL/COS gated audio from the repeater, which will keep all of the users at the other end hearing just your voice audio.

Remember that FCC currently permits links on 222.15 and above for Auxiliary Stations, so if you intend to link to a 2 meter machine you will need to get a link frequency other than linking directly on 2 meters. Commercial UHF radios like the GM300, Maxtrac, GE Phoenix, MII's and Micors have been some of the favorites and can be frequently found at bargain prices at hamfests and online. Mobile ham rigs are not suitable for continuous duty and do not have the selectivity needed for linking. Higher RF environment applications may require link radios with tighter front ends and fans on the PA's for continuous duty.

It is also good practice to use directional antennas between the repeater and link radio and using reduced power when possible. If you are fortunate enough to have broadband at your tower site then you could use a remote base port and direct connect to your controller, skipping the radio link and slightly improving the response time and audio quality. At such sites, both IRLP and Echolink allow for remote administration via the Internet. I have seen just about every radio used, but it is important that you can find one that has access to clean de-emphasized audio, that is squelch gated or muted on PL and have good access to the PL and COS logic voltages to use for triggering Echolink and IRLP interfaces. Some radios provide logic and audio access better than others.

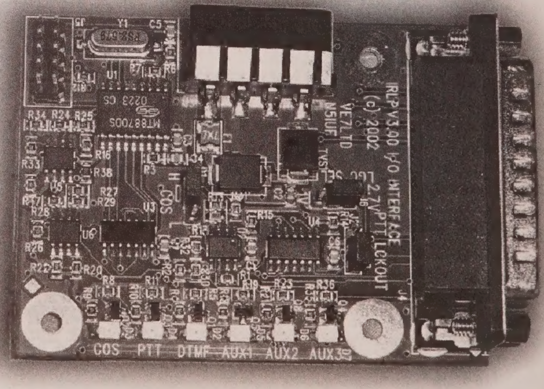
COMPARING ECHOLINK AND IRLP

Echolink and IRLP seem similar on the surface, but are quite different under the hood and in philosophy. I will try to hit the highlights and help you decide what works best for your needs. I personally have both and enjoy the merits of each, but if you are seriously deciding on Internet linking for your group, this comparison might help.

IRLP was created by Dave Cameron VE7LTD in the late 90's in response to his frustration with I-phone using Windows. He settled on the open-source Linux because of it's robust, flexible, stable and secure OS.

His design permits only RF links on both ends. It does not permit PC keyboard connects. The Internet Radio Linking Project system incorporates a custom interface board that handles the PTT, COS and DTMF logic from the Linux computer to the link radio (picture below). The software and board package ships for around $130. Updates and features are automatically sent to all participating nodes overnight, eliminating the need to download the latest version.

At the node level, the nodes use PGP cryptographic techniques to authenticate each other. The only way to access IRLP is via a connected radio gateway. The end user initiates IRLP connections by keying DTMF commands from their radio. Node owners can modify and/or contribute to the software features with custom scripts such as reporting whether a link is up or not, link radio



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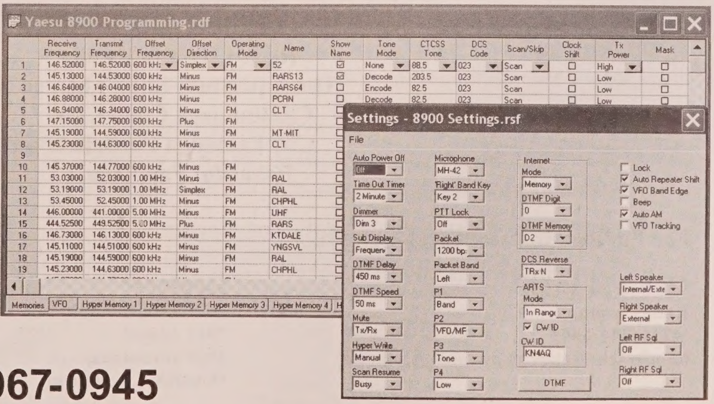

Yaesu 8900 Programming.rdf

	Receive Frequency	Transmit Frequency	Offset Frequency	Offset Direction	Operating Mode	Name	Show Name	Tone Mode	CTCSS Tone	DCS Code	Scan/Skip	Clock Shift	Tx Power	Mask
1	146.52000	146.52000	600 kHz	Simplex	FM	52	☑	None	88.5	023	Scan	☐	High	☐
2	145.13000	144.53000	600 kHz	Minus	FM	RARS13	☑	Decode	203.5	023	Scan	☐	Low	☐
3	146.64000	146.04000	600 kHz	Minus	FM	RARS64	☐	Encode	82.5	023	Scan	☐	Low	☐
4	146.88000	146.28000	600 kHz	Minus	FM	PCRN	☐	Decode	82.5	023	Scan	☐	Low	☐
5	146.94000	146.34000	600 kHz	Minus	FM	CLT	☐							
6	147.15000	147.75000	600 kHz	Plus	FM		☐							
7	145.19000	144.59000	600 kHz	Minus	FM	MT-MIT	☐							
8	145.23000	144.63000	600 kHz	Minus	FM	CLT	☐							
9							☐							
10	145.37000	144.77000	600 kHz	Minus	FM		☐							
11	53.03000	52.03000	1.00 MHz	Minus	FM	RAL	☐							
12	53.19000	53.19000	1.00 MHz	Simplex	FM	RAL	☐							
13	53.45000	52.45000	1.00 MHz	Minus	FM	CHPHL	☐							
14	446.00000	441.00000	5.00 MHz	Minus	FM	UHF	☐							
15	444.52500	449.52500	5.00 MHz	Plus	FM	RARS	☐							
16	146.73000	146.13000	600 kHz	Minus	FM	KTDALE	☐							
17	145.11000	144.51000	600 kHz	Minus	FM	YNGSVL	☐							
18	145.19000	144.59000	600 kHz	Minus	FM	RAL	☐							
19	145.23000	144.63000	600 kHz	Minus	FM	CHPHL	☐							

Settings - 8900 Settings.rsf

Auto Power Off: Off
Time Out Timer: 2 Minute
Dimmer: Dim 3
Sub Display: Frequen
DTMF Delay: 450 ms
DTMF Speed: 50 ms
Mute: Tx/Rx
Hyper Write: Manual
Scan Resume: Busy
Microphone: MH-42
'Right' Band Key: Key 2
PTT Lock: Off
Packet: 1200 bp
Packet Band: Left
P1: Band
P2: VFO/MF
P3: Tone
P4: Low
Internet Mode: Memory
DTMF Digit: 0
DTMF Memory: D2
DCS Reverse: TRx N
ARTS Mode: In Range
☑ CW ID
CW ID: KN4AQ
☐ Lock
☑ Auto Repeater Shift
☑ VFO Band Edge
☐ Beep
☑ Auto AM
☐ VFO Tracking
Left Speaker: Internal/Exte
Right Speaker: External
Left RF Sql: Off
Right RF Sql: Off

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ID's, and call waiting. The majority of IRLP is written in bash shell scripts, which the node owner can directly read and modify if desired. The node is designed to be connected full time to a broadband connection such as a DSL or cable modem.

Installing an IRLP node is normally effortless unless you have no knowledge of Linux. Many of the problems encountered during installation are hardware issues or network related problems. A built-in users group of node owners stands ready to help with installation, configuration and technical setup, so don't feel like you need to purchase a Linux help book... although it wouldn't hurt. If you are new to Linux, an IRLP install may take a little longer... but as with any hobby you will learn something new.

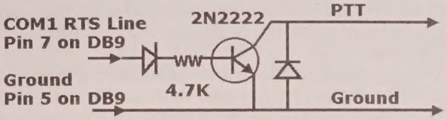
IRLP uses an ADPCM audio codec but can also connect with GSM nodes using a lower bandwidth. IRLP node owners tend to configure their nodes with PL as described above and are tougher on the audio requirements needed to participate on Reflector nets.

Once the node is configured with the link radio interface, the IRLP software boots on power up and you can unplug the monitor and keyboard and set the node aside. A P200 computer or better with 64M ram and a 2 gig drive with a NIC card and Sound Card are all that is required. At the time of this writing, some 1200+ repeaters and links participate internationally using IRLP. There are also Reflectors (common meeting places for repeaters and nets) available with 10 subchannels each allowing for special interest groups, regional repeaters, called nets and general listening to occur.

Echolink followed the success of the Windows based I-link and was launched in mid 2002 by Jonathan Taylor K1RFD. It was initially designed to be compatible with I-link but very quickly took on a life of its own. At this time, some 1400+ repeaters and links participate using Echolink.

The primary difference in the two schemes is that Echolink allows PC to Radio and PC to PC connects, where IRLP is exclusively radio on both ends. Echolink uses a GSM audio scheme which takes up less bandwidth and can be used with a dial-up connection, but if used on a repeater link, it should be dedicated to a broadband connection. Over 110,000 licensed amateurs have been registered internationally using Jonathan's contribution, and because of its Windows feature set, has become a popular way for amateurs to keep in touch.

Interfacing to repeaters is fairly simple using the sysop mode. You can use one of the commercial available soundcard interface boxes like a Rigblaster or simply homebrew a one-transistor open collector switch off of the Com1 port to PTT your link radio.



You can use the VOX feature in Echolink, which actually works nicely, to take the audio from your link radio. If you choose, you can trigger the Com port with a buffered COS to direct key the software to start the VoIP stream, but I have found that the prebuffering features of the VOX works well as long as your link radio is decoding PL and the audio is "clean" from the repeater.

The soundcard line-in and line-outs can be transformer isolated to eliminate hum and RF interference, but make sure you have a common ground to the computer for the PTT on the link radio. Figure 1 is an isolation circuit similar to the K4ABT "rascal" kit than can also work as an interface, using an opto-coupler to PTT the link.

Echolink is free for the downloading, but requires that you have

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proof of a valid amateur license for authentication. You can register for three nodes types under the same call… a stand-alone PC user (i.e. KD4RAA), a linked or simplex node (KD4RAA-L) and as a repeater (KD4RAA-R).

There has been some concern in the past about PC users gaining access to amateur repeaters, but I suppose an unlicensed operator can pick up a mic and key it as easily as he can press the spacebar and talk on Echolink. The call validation process has improved and I personally have not encountered any lid activity on Echolink.

On the air, users can access other nodes with the built in DTMF software or an external DTMF decoder available in some of the advertised interfaces, given that your repeater controller does not mute DTMF or has a conflict with the same code set you choose for node access.

The built in node list and other features in the graphical user interface is nice and easy to navigate for those Windows familiarity. Jonathan has thought of just about everything a repeater owner might need in the user interface, and setup is almost painless. You will probably have more time invested in setting up the link radio interface when all is done.

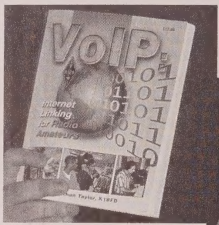
The PC requirements are similar to that of IRLP, but Jonathan encourages running a Windows NT version such as Win 2000 or XP for reliability. Echolink also has the ability to run its own conference server (2 or more connects at the same time) under the same node… given you have the bandwidth available. Echolink Conference servers (like IRLP Reflectors) exist as common meeting places for nets and special interests. Laptop end users can access your node even with dial-up connects while on the road, making it nice to check in from hotel connections or WiFi while traveling where RF node access might not be available.

THIRD OPTION

There is a third option that I have to mention. There is a group that has developed an "EchoIRLP" node that combines the benefits of both schemes in one box. It runs under Linux and is an either-or connect. You cannot run both at the same time, but it gives users an option of either, using one link radio - on one common repeater. This seems to be a good solution but requires a good bit of Linux knowledge to configure. You will need to order an IRLP kit and then load a custom Echo Linux package. Rumor has it that future releases of IRLP might incorporate this option.

I also have to mention that at the time of this writing, Jonathan Taylor released a publication entitled *VoIP, Internet Linking for Radio Amateurs* that is available from ARRL publications. It is a wonderful resource and a great investment ($^{\$}18$) if you are planning to link your repeaters via the Internet. It is a must-buy if you are considering either Echolink or IRLP for your system.

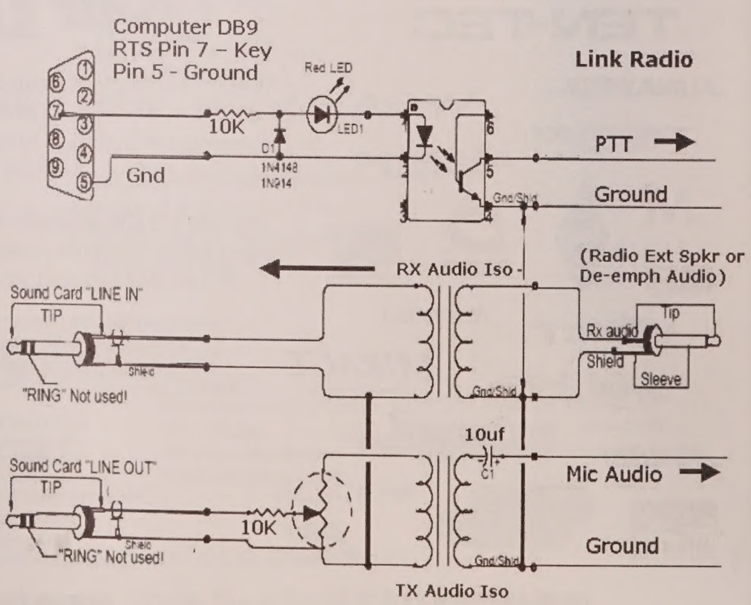
Resources: Echolink -www.echolink.org
IRLP - www.irlp.net
EchoIRLP - www.echoirlp.com


VoIP
Internet Linking for Radio Amateurs
Jonathan Taylor, K1RFD

Above: Jonathan Taylor's book, ***VoIP: Internet Linking for Radio Amateurs***

Echolink creator Jonathan Taylor K1RFD (left) and IRLP creator Dave Cameron VE7LTD at the VoIP forum at the Dayton Hamvention.

Figure 1: *a simple radio/computer interface for isolated audio and push-to-talk.*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Pin 5 - Ground
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Link Radio
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2
3
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6
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9
10K
LED1
D1
1N4148
1N914
Gnd
6
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Gnd/Shld
PTT
Ground
RX Audio Iso
(Radio Ext Spkr or De-emph Audio)
Sound Card "LINE IN"
TIP
Shield
"RING" Not used!
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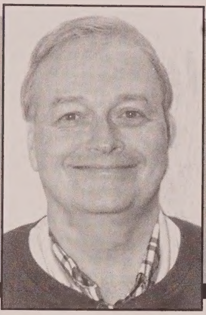
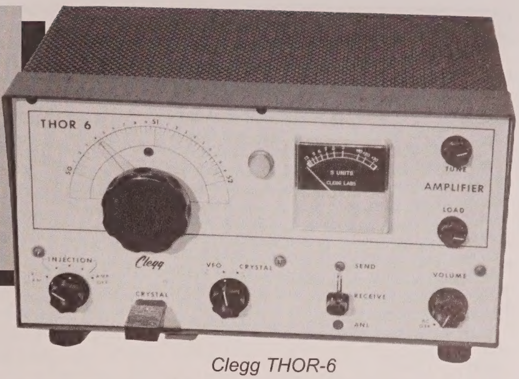




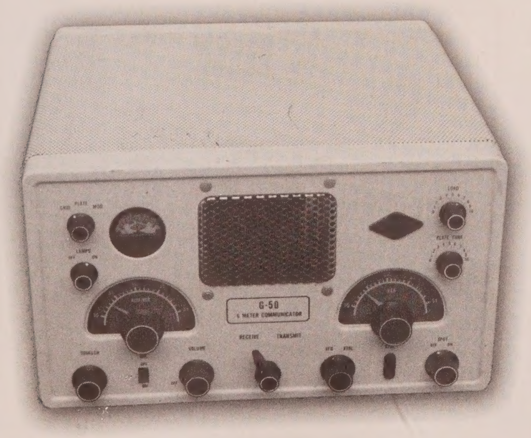
Clegg THOR-6

The Cadillac of Six Meter Equipment – A Look at Clegg

In the late 1950's and early 60's, there was a transition and upsurge in manufacturers offering six meter equipment. The 50's were mainly represented by companies such as Gonset and their famous line of Communicators. The "One Eyed" Communicator was highlighted by its distinctive green tuning eye vacuum tube. Its eerie glow certainly added to the mystique for early mobile operators, particularly in the evening hours. Those who lived through the 50's six meter period were sandwiched between operation on the old five-meter band (56-60 MCS), and the emergence of lots of new and sophisticated equipment that hit the market in the 1960s for six meters.

The growth of VHF television and the need for the 54-60 MCS portion of the spectrum for Channel 2 caused a change for the Magic Band. We got moved from 56-60 MCS (Five Meters) to 50-54 MCS (Six Meters) to make way for Channel 2 ! If VHF Channel 1 had emerged in the USA, it would probably have occupied the 48-54 MCS slot. Earlier DXers from this era (ie mid 50s) may recall hearing Channel 1 TV from Europe on 6 meters when skip conditions were good.

Many HF operators from this period recognized Collins as the Cadillac of amateur radio equipment. True, Hallicrafters, Johnson, Hammarlund and others were also very good—but Collins was the top to many. Six meter operators had no such line of equipment until the emergence of Clegg Laboratories, a division of Squires-Sanders, Inc., based in New Jersey.



Clegg G-50 Communicator

Ed Clegg W2LOY was a founder and President of the Clegg Laboratories Division. Although Clegg built equipment such as the model 62T10 and 250-6 in the late 50's, it was not until the early 60's that Clegg really established itself as the "Cadillac" for the world above 50 MCS. The company introduced their excellent 6 and 2 meter Zeus transmitter for AM operation complete with an internal VFO. Its companion Interceptor receiver really made for a great state-of-the-art station. And the receiver also included two-meter capability. It had a fantastic low noise front end, excellent selectivity, strong immunity to overload and outstanding frequency stability.

For those wanting a low cost transceiver, Clegg offered the 99'er. This simple transceiver featured dual conversion, and ran 8 watts. Clegg soon introduced the 22'er for those desiring two-meter capability. Later, they offered the Clegg 66'er with more

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Getting the Frequency Up to Six Meters

Not many hams were willing to pay the high cost for a 50 MCS overtone type crystal. Instead, they often used WW-II surplus FT-243 type crystals because of their low cost and easy availability. Basically, the 8 MCS range crystal would be used in an oscillator tuned for the third harmonic. This would get the frequency up around 25 MCS. The next stage would be a frequency doubler, and that would get the frequency up the 50 MCS range. Next, the 50 MCS drive signal would be coupled to the RF amplifier stage.

The mathematics for a 8 mc crystal used for 50.4 MCS went like this: Starting with an 8.4 MC crystal and tuning for the third harmonic gives you 25.2 MC (ie 8.4 MC X 3 = 25.2 MC); and running the 25.2 MC signal into a frequency doubler resulted in 50.4 MC (ie 25.2 MC x 2= 50.4 MC).

And that was the megacycle road to the Magic Band years ago !!!

power (22 watts). For those wanting a SBB 6 meter transceiver, they manufactured the Venus, which also included capabilities for AM and CW operation and featured a nuvistorized front end. For really high power applications on the Magic band, Clegg sold the Apollo 675 watt linear amplifier. It was a great companion for the Venus.

THE CLEGG THOR SIX METER TRANSCEIVER

The real workhorse for six meters, and suitably priced, was the Clegg Thor transceiver. Let's focus on the Thor as this article continues. The first version ran 50 watts input for AM and CW and featured a common VFO for both transmit and receive. It was a well designed and configured transceiver with a large tuning meter and simplified operational controls. A separate power supply and modulator (model # 417) was needed, and this "heavy" item could be placed under the operating table for convenience. A later model Thor produced 60 watts input using a 6883 final tube operating Class C with an efficiency rating of approximately 65 per cent.

Again, a single VFO tuning knob for both transmit and receive was employed. When "split" operation was desired, a plug in FT-243 type 8 MCS crystal could be utilized for the transmitter. But this, of course, limited the available frequencies for transmit because of crystal control. 12 MCS crystals would also work, but were not used as often.

The large, easy to read meter served dual functions as a signal indicator for receive, and as a tuning mechanism for transmitter alignment. The microphone jack used a standard Switchcraft plug for push-to-talk capability. A convenient earphone jack was provided. For those wanting to monitor the relative AM modulation level, a rear jack receptacle was provided. The transceiver had a well designed and constructed high level plate and screen modulation circuit. The frequency response was carefully tapered for optimum communication quality. A 12AX7 speech amplifier provided sufficient gain to drive two audio amplifier tubes, providing 30 watts of audio for modulating the final RF amplifier. As a result, 100% AM modulation could easily be achieved. Cheaper equipment used less efficient techniques such as choke modulation, resulting in less than 100% modulation. For those with TVI concerns, Clegg offered a model 372 low pass filter.

The receiver had a grounded grid 6CW4 Nuvistor front end with circuitry providing a relatively flat response for the first two megacycles of the band. A crystal filter was included to minimize interference outside the receive passband.

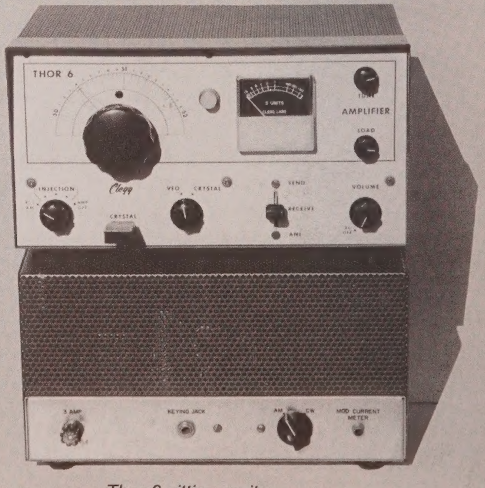
For improved receiver VFO stability, a cathode follower was employed for isolation. The first mixer had a 10.7 MCS IF output, mixing the RF amp stage output with the tunable VFO. In the next mixer, a crystal controlled oscillator was beat with this IF to produce a nominal 456 KCS output. Proper amplification at this last IF frequency was available for good linear operation of the detector circuit. For SSB and CW, the level of inserted signal for heterodyning purposes could easily be controlled. The noise limiter functioned well for suppressing impulse interference. The audio output to the speaker was almost 2 watts; good for most operating environments. The easy to read S-Meter had a zero calibration adjustment.

I often think of the earlier Gonset G-50 as a comparison to the Thor, although the G-50 had dual VFOs for transmit and receive. It, like the Thor, had fantastic audio. I worked a six meter AM DX station in Maine on E-Skip a year or so ago. The ham was running a G-50, and he had outstanding audio. The Clegg Thor was a great intermediate priced transceiver for six meters and was utilized as a DX workhorse by many serious Magic Band operators back in the 1960's. Clegg certainly established a place in VHF history as the Cadillac of six meter equipment. It's still sought after at hamfests as a prize acquisition. ■

Plate Modulation

Plate modulation was the best and most efficient method for AM operation. As an example, 50 watts of RF input required 25 watts of audio, or one-half the audio power as compared to the RF input power was needed for 100% modulation. The 6L6 is an example of a tube used for push-pull operation in a modulator. I used 5881 "high quality" 6L6 equivalent tubes in my modulator for six meter AM.

I preferred class AB1 operation, as it seemed to produce less distortion. A modulation transformer was used to interface the modulator to the final RF amplifier. The primary of the modulation transformer was connected to the modulator output, and the secondary was coupled to the final RF amplifier. One popular modulation transformer I used for homebrew transmitters was a Triad 20 watt M3-X. It only cost me about $^{\$}$5 in the late 1950's, and was good for modulating a 40 watt input transmitter. I'd be interested to learn what others used for a modulation transformer.



Thor 6 sitting on its power supply/modulator

Let's Look at it-this way!!

Marvin Whatley AA4YW
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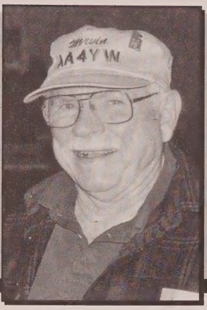

Why?

Among the varied responses I have gotten to my articles is the question, "why do you do it?" The implication (not without some justification) is that my works are critical, negative and generally not creative. I do have my creative moments, but rather than take that tack let's address the question.

For a big hunk of my life I was a teacher. I taught engineering. I have always felt, and still feel, that the most important function of a teacher is to develop in the student the ability to think. A failing of modern education is that it usually restricts itself to answers in the form of prepackaged solutions. When our secondary schools teach environmental science what they are really teaching is a few dubious, spectacular facts, the correct attitude to be assumed, and what the kids should say and do.

To a greater or lesser degree this applies to all subjects, sometimes even mathematics. In engineering we also teach the solutions to a large array of problems. If you are not aware of what has already been developed you waste effort “reinventing the wheel.” But we try to prepare the student to go beyond this to address problems for which solutions are not available. The tools for this include an ability to understand the requirements of the problem; the ability to examine data/information critically for relevance and accuracy; the ability to draw insight from a repertoire of existing procedures; but mostly to use logic. Logic is the most valuable tool we have, but we lose it as we become accustomed to its convolution and distortion in daily application. When most people think they are thinking, there are merely rearranging their prejudices.

Television shows and newspaper articles that are supposed to be informative will often omit a critical component or draw a conclusion that has no logical justification. Reducing it to the standard form: "if this then that" just doesn't work. When a social problem is described, or some new technology is presented, one must blindly presume that someone somewhere knows what he is doing, or feel acute frustration. On the few occasions where I have been able to confront some responsible party (not an easy task) I have been told, “well, yes, we took a few simplifying liberties so as to not confuse the average reader (viewer).” Never was it allowed that perhaps the writer didn't really understand what he was saying. So you now have something that is simple and wrong, but no one is confused. Are you confused? From ads on television you might conclude that people are not supposed to think logically but to respond only to hype. From television's success, they must have it right.

If all human problems were drawn from some standard pool or were just of a trivial nature none of this would matter. But we live in a democratic culture where new and important problems are always referred to the people! At all levels down to and including what happens to Amateur Radio, the will of the people prevails. When everybody goes along with something, that's what happens. The realization that what these people respond to – almost exclusively – is hype is frightening.

Humor comes in various forms. Simple slapstick leaves me cold. My favorite jokes are those that use impeccable logic on some twisted observation to arrive at a ludicrous conclusion. Young children, because they are both inherently logical and inexperienced, naturally do this. My vehicle is to examine a situation or practice from a point of view other than the politically correct one and logically extrapolate to inferences. I like to point out that with plausible variations on the popular picture we may be led to some unexpected places. I particularly enjoy doing this when it deflates pompous persons or institutions who purport to be leading the unworthy to salvation.

The field of opportunity is unbounded, so if one wished he could play with anything including icons like “Motherhood” which relates to over- population, or “apple pie” which implies obesity. I try to be selective (a matter of judgment) and focus on issues relating, however remotely, to Amateur Radio. If I lead you through a twisted path where something that supports your world seems threatened, I entreat you to standby for a moment. It is not appropriate for you to say simply, “I will not look at that,” nor is it appropriate to say, “your logic and facts are sound, but I choose not to believe it.” Your alternatives are only to refute my facts and/or logic, or accept that there is, somehow, a chink in the fabric. Hating me is optional.

Only through exercises like this can we keep an open perspective on our world and hone our logical skills to allow sensible solutions to the problems that our culture continually presents. If I can, while amusing my readers, cause a few to justify their positions, or consider the possibility of alternatives, then I have done what I wanted to do. Without something like this we could evolve into a nation where people believe that politicians can create wealth by passing laws, or a state where people believe that bureaucrats can generate electric power by fiddling with the regulations, or that everyone is inherently entitled to everything he wants. We might even elect a science fiction super-hero for our president.■

Get the Hammer

And let's get technical

Randy McKenzie KK4EJ
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kk4ej@sera.org

The Accuracy Required

A few years ago I taught a class for the local Community College. It was a challenge to be on that side of the classroom! The class was basic semiconductors, which basically covered the diode, transistor, and even a basic FET.

The students were all tech type folks from a local company. In fact I was 4 years younger than anyone in the class. The company was paying for their education, and all would get a pay increase when they completed their degree, so they were all very good students.

My approach to teaching was to try to convey some common sense troubleshooting along with the “book” instructions. Everyone seemed to do great until the first lab. The lab was to basically build and play with some common rectifier circuits. First they had to calculate the voltages and currents of the circuit, then build it and confirm they had the right answers. All went well until I got one paper, and the student wrote some very concerned remarks. He stated that the lab was a total waste of time since the materials and circuits did not provide the accuracy that was required. I was stumped at what all that meant.

The next class, I brought it up, mostly concerned that this rookie teacher had screwed up. I asked questions and everyone said they thought it was a good lab, but the one guy's concern was that the answers didn't match. After some discussion, I discovered the error.

The student did his math as he was used to from the Engineering Math class. They carry everything to the second decimal point. His calculations didn't match to the actual lab and he thought he was totally wrong. So the rookie instructor brought out the ohm-meter and a pack of resistors, taking a lab period to re-teach them resistors.

Somewhere along the line, they did not get taught about the accuracy of components. The knew the tolerance bands, but it didn't sink in of what it meant. So after testing about 50 1k resistors, I got them to start seeing what a 5% or 10% tolerance would do for them.

I think sometimes we are taught to be *too* accurate in things. Close enough works for a lot of things. And electronic circuits for the most part, have a little tolerance built in.

Since teaching that class, and a few others that followed, I found I enjoyed teaching. I still see many of my past students, and I'm proud that all of them have maintained a career in the general electronics area. (Some might argue that they've done that in spite of my teaching)

One of my duties for the State Police is the certification of the Radar Tuning Forks, used to calibrate the Radar units in the cars. Yes, the "Kojak with the Kodak" stuff. We have about 20 steps to certify the accuracy of every device we use. *Then* the computer program we use actually calculates the MPH reading out to the 10 million-TH, or .0000001 MPH. Even NASCAR doesn't go *that* far with pole speeds! The funny thing about that accuracy is the radar display reads to the nearest ONE MPH. But for Court (lawyers) we actually carry things to the ten millionth of a mile per hour. And we STILL get some slick lawyer trying to beat it!

For some things, accuracy is *that* important. I've heard Hams talking on a repeater and one says they think the frequency is 100 Hz low. Sorry, but I don't think any of us, even the super-tech Hams, can measure RF with just their ears! Medical instruments require certain accuracy, but most all consumer devices will be 10% at best.

My desire for you in this column is to pass along the experience that a few tenths of a volt won't make a lot of difference in most circuits. I know a guy who changed three voltage regulators because they read 5.1 volt instead of 5.0 volt. Momma told me never argue with a fool. The circuit he was working on provided some LED's on a control panel.

Enjoy the summer! My wife is wanting some grass in the yard. If it grows, then I have to mow it. GOD Bless our Nation! ■

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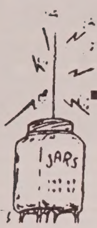

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E-Mail: blambert1@mindspring.com

Please Print Clearly

JARSFEST 2004 Pre-registration

Make Checks Payable To JARS

NAME ______________________ CALL __________

ADDRESS ______________________

CITY ______________ STATE ______________ ZIP __________

PHONE (____) ______________

______	Pre-registration Tickets	@ $4.00 ea.	$ ______
______	Indoor Fleamarket Tables	@ $10.00 ea. plus registration	$ ______
______	Outside Tail Gate Spaces	@ $5.00 ea. plus registration	$ ______

Pre-registration Requests Received Without An S.A.S.E. Or After November 9th Will Be Held At The Door

Johnston Amateur Radio Society, Inc. P.O.Box 302, Benson, NC 27504
http://www.jars.net

THE SERA OFFICIAL REPEATER INDEX

REPEATER LISTINGS FOR: GEORGIA ■ KENTUCKY ■ MISSISSIPPI ■ NORTH CAROLINA ■ SOUTH CAROLINA ■ TENNESSEE ■ VIRGINIA ■ WEST VIRGINIA

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SERA will not be responsible for incorrect or omitted listings. The responsibility of correct listings is that of the actual repeater owner or sponsor. SERA makes every effort to keep the index as accurate as possible with information provided. The SERA ***Repeater Journal*** repeater lists contain certain repeaters which are NOT or have not been coordinated by SERA, or are not operating according to recognized frequency utilization plans. SERA does not necessarily condone or recognize such repeaters as being legal or illegal. They are listed in our indexes primarily to keep our readers informed of all repeaters known in the areas served by The SERA.

Some repeater owners or sponsors allow voice as well as other functions on their machine. Operators should check with owners for additional information about what is allowed, and what features are available. Digital Repeaters with normal input/output (pairs) are listed in the regular FM repeater index. Digital systems operating simplex are not coordinated by SERA and are not on our repeater lists. The *codes* column contains the tone or access code for those repeaters which the owner or trustee has given us written permission and asked that we publish them . Access tones are listed for the reader's convenience both in the By-State, and the By-Frequency listings.

Entries with "#" in front of city indicates repeaters added to this index that have not been coordinated through the local SERA state coordinator. Owners may work with their coordinator to get this indicator removed. Repeaters that have been coordinated but may not yet be on the air yet are listed with "PROP" in the codes column. Owners should notify SERA when on the air.

Repeater owners are reminded to contact their local Frequency Coordinator for assistance in coordination, changes in their listings, or any other requirements. All SERA services are FREE. It is very important that the annual SERA repeater datasheet, sent to all known repeater operators, be accurately updated each year and returned to SERA.

SERA RECOMMENDED FM VOICE SIMPLEX

10 Meters:	29.600#						
6 Meters:	52.490	52.525#					
2 Meters:	146.400*	146.415*	146.430*	146.445*	146.460*	146.475*	146.490*
	146.505*	146.520#	146.535	146.550	146.565	146.580	146.595
	147.405*	147.420*	147.435*	147.450*	147.465*	147.480*	147.495*
	147.510	147.525	147.540	147.555	147.570	147.585	
222 MHz	223.400	223.420	223.440	223.460	223.480	223.500#	223.520
	223.540	223.560	223.580	223.600	223.620	223.640	
440 MHz	445.825	445.875	445.900	445.925	445.950	445.975	446.000#
	446.025	446.050	446.075	446.100	446.125	445.150 (Not all listed)	

* Permitted for Voice Simplex use unless operation would cause interference to repeater inputs. Be aware that SERA coordinates some of these frequencies as repeater inputs in some areas.
# - Designated National Simplex Frequencies.

SERA RECOMMENDED DIGITAL SIMPLEX CHANNELS

2 Meters:	144.390#	144.910	144.930	144.950	144.970	144.990	145.010
	145.030	145.050	145.070	145.090	145.510	145.530	145.550
	145.570	145.590	145.610	145.630	145.650	145.670	145.690
	145.710	145.730	145.750	145.770			
222 MHz.	223.660	223.680	223.700	223.720	223.740	223.760	223.780

Hi Speed Digital Chan. - 222.350 to 222.450 (222.400 Center) - (100 KHz wide)
Hi Speed Digital Chan. - 223.800 to 223.900 (223.850 Center) - (100 KHz wide)

440 MHz	440.9125	440.9250	440.9375	440.9500	440.9675	440.9750	440.9875
	441.0000	441.0125	441.0375	441.0500	441.0625	441.0750	441.0875
	441.1000	441.1125	441.1375	441.1500	441.1625	441.1750	

NOTE: Digital operators are reminded to check with their local Digital organizations as to which channels are available for various digital usage in their particular area. Some channels are for exclusive use of LAN or BBS, etc. usage. #144.39 Generally Accepted APRS channel

SERA JOURNAL REPEATER LISTINGS BY STATE - BY CITY

Listings Correct as of July 21, 2004

PLEASE NOTE: CTCSS Tone Frequencies are listed for repeaters only if the repeater sponsors request they be listed. Tone access listing does not indicate a closed repeater.

GEORGIA

10 METERS

CONYERS	AI8H	29.680	-		
DALTON	N4BZJ	29.680	-		
#MACON	KF4XH	29.620	-	UNCOR	
MONROE	KQ4XL	29.620	-		
VALDOSTA	KB0Y	29.680	-	T141.3	☺
WARNER ROBINS	WR4MG	29.660	-		

6 METERS

ATL/MARIETTA	KD4DKW	53.090	-	T151.4	☺
ATLANTA	KA5WZY	53.150	-		
AUGUSTA	W4WTA	53.030	-		☺
BISKEY MT.	KC4JNN	53.050	-	T100.0	☺
CARTERSVILLE	WB4AEG	53.070	-	T123.0	☺
COCHRAN	W4MAZ	53.010	-	PROP	☺
#CONYERS	WB4JEH	51.550	+	UNCOR	
CONYERS	WB4JEH	53.550	-	T151.4	
CRAWFORD	KD4FVI	53.330	-	T88.5	
#CUMMING	WA4YNZ	51.700	-	UNCOR	
CUMMING	N1IB	53.930	-	107.2	
DALTON	N4BZJ	53.130	-		
HIAWASSEE	KC4CBQ	53.270	-	186.2	
KINGSLAND	KC5BMJ	51.940	-	T82.5	☺
LAKE PARK	KB0Y	53.890	-	T141.3	☺
LAWRENCEVILLE	W4GR	53.110	-	82.5	
LULA	WB4HJG	53.890	-	T82.5	☺
#MACON	KF4XH	53.390	-	UNCOR	
#MACON	KR4OL	53.430	-	UNCOR	
MARIETTA	N1KDO	53.210	-	T79.7	☺
MARIETTA	KF4BMG	53.250	-	T79.7	
MCINTYRE	KF4CXL	53.730	-	T77.0	☺
#PINE LOG MT	WD4OVN	53.450	-	UNCOR	☺
#PINE LOG MT.	K4PLM	53.290	-	UNCOR	
#ROSWELL	WA4YNZ	53.010	-	UNCOR	
SUMMERVILLE	KK4MC	53.750	-	T127.3	
THOMASVILLE	KI4AWK	51.740	-	PROP	
WARM SPRINGS	KD4BDB	53.230	-	PROP	
WARNER ROBINS	WR4MG	53.790	-		
WATKINSVILLE	KD4AOZ	53.570	-	T123.0	☺

2 METERS

ADAIRSVILLE	K4NGA	146.685	-	167.9	☺
ALBANY	W4MM	146.700	-		☺
ALBANY	W4MM	146.730	-		☺
ALBANY	W4MM	146.820	-	T141.3	☺
ALLENHURST	KF4ZUR	147.270	+	162.2	
AMERICUS	W4VIR	147.270	+	T141.3	☺
ASHBURN/TIFTON	W4PVW	147.285	+	T141.3	☺
ATHENS	KD4QHB	146.745	-		☺
ATHENS	KD4AOZ	146.955	-	T123.0	☺
ATHENS/CRAWFRD	K4TQU	147.375	+	127.3	☺
ATL/UNION CITY	W4ZT	146.625	-	100.0	
ATLANTA	W4IBM	145.290	-	T88.5	☺
ATLANTA	W4DOC	145.350	-	T146.2	☺
ATLANTA	K4LCI	145.430	-		
#ATLANTA	WB4QGR	146.640	-	UNCOR	
ATLANTA	W4DOC	146.820	-	T146.2	☺
ATLANTA	K4CLJ	146.970	-	T	
ATLANTA	WA4NNO	147.000	-		
ATLANTA	KC4ZIZ	147.285	+		
ATLANTA CARES	WB4RTH	147.105	+	T107.2	☺
ATLANTA/AIRPORT	W4REI	147.030	+		
ATLANTA/BELL	W4PME	145.410	-	100.0	☺
ATLANTA/MARIETTA.	N4NFP	146.655	-	T151.4	☺
ATLANTA/MARIETTA.	N4NEQ	147.345	+	151.4	☺
ATLANTA/SWEAT MT	KD4NC	146.730	-		
AUGUSTA	KK4HL	145.110	-		
AUGUSTA	W4DV	145.290	-	T100.0	☺
AUGUSTA	AA4UA	145.370	-		
AUGUSTA	K4KNS	145.410	-		☺
AUGUSTA	W4DV	145.490	-		☺
AUGUSTA	KT4N	146.940	-		
AUGUSTA	K4KNS	146.985	-	100.0	☺
AUGUSTA	N4BMA	147.180	+		
#AUSTELL	K4JPD	147.195	+	UNCOR	
BACONTON	K4TWG	145.150	-	PROP	
BAINBRIDGE	KE4RWR	147.090	+	PROP	
BALDWIN	WD4NHW	147.180	+		☺
BARNESVILLE	W8JI	147.225	+		
#BLACK ROCK MT	KE4SNT	147.390	+	UNCOR	
BLAIRSVILLE	W9QXW	146.955	-	T100.0	☺
BLAIRSVILLE	KI4DZY	147.210	+	T100.0	
BOGART	W4EEE	147.000	+	T	☺
BONAIRE	KD4HMH	145.470	-	T	
BONAIRE	WR4LT	146.670	-	PROP	
BONAIRE	K4EDN	147.015	+	T82.5	☺
BOSTON	W4UCJ	147.195	+		
BRUNSWICK	K4TVE	146.730	-		
CALHOUN	K4WOC	146.745	-	T100.0	☺
CARROLLTON	W4FWD	146.640	-	T131.8	☺
CEDAR GROVE	WA4EHO	147.150	+	PROP	
CEDARTOWN	W4CMA	147.120	+		☺
CHATSWORTH	N4YYD	145.250	-	T71.9	
CLARKESVILLE	K4HCA	147.120	+		☺
CLAXTON	W4CLA	147.075	+		
CLEVELAND	WB4HIG	146.910	-		☺
COCHRAN	N4MXC	145.110	-	T107.2	
COCHRAN	W4MAZ	147.330	+	T77.0	☺
COLBERT	N4ALE	147.300	+	123.0	☺
COLUMBUS	W4FIZ	145.310	-	T123.0	☺
COLUMBUS	W4CVY	146.610	-	T	☺
COLUMBUS	W4CVY	146.880	-		☺
COMMERCE	NE4GA	147.225	+	T123.0	☺
CONYERS	WB4JEH	145.230	-	T151.4	
CONYERS	WB4JEH	146.610	-	T151.4	
CONYERS	KF4GHF	147.210	+	T162.2	☺
CORDELE	KA4WUJ	145.490	-	T103.5	☺
COVINGTON	WA4ASI	146.925	-		
CUMMING	WB4GQX	147.150	+		☺
DAHLONEGA	N4KHQ	146.835	+	T100.0	☺
DALLAS	WD4LUQ	146.895	+	T77.0	☺
DALTON	W4DRC	145.230	-		
DALTON	N4BZJ	147.135	+	T118.8	
DARIEN	WA4EPK	146.685	-		
DECATUR	W4BOC	145.450	-		
DOERUN	KG4ABK	147.225	+	PROP	
DOUGLAS	KE4ZRT	147.045	+	141.3	☺
DOUGLAS	KE4ZRT	147.165	+	T141.3	☺
DOUGLAS	AD4EQ	147.315	+	T141.3	☺
DOUGLASVILLE	KR4HV	145.110	-	T88.5	☺
DOUGLASVILLE	W4SCR	147.360	+	T88.5	☺
DUBLIN	WA4HZX	147.360	+		
EASTMAN	KC4RRO	145.210	-		
EASTMAN	KF4ODQ	145.330	-	T77.0	
EATONTON	KC4YHM	147.090	+	T179.9	
ELBERTON	N4UJT	146.625	-		
ELLIJAY/TALONA M	KC4ZGN	146.985	-	T77.0	
EMERSON	AE4JO	147.240	+	T103.5	☺
FAYETTEVILLE	WA4EPK	145.210	-	131.8	
FAYETTEVILLE	K4KZY	146.685	-		☺
FOLKSTON	KD4GEY	146.790	-		☺
FORSYTH	W4STJ	147.315	+	88.5	
GA TECH	W4AQL	145.150	-	167.9	
GAINESVILLE	W4CBA	145.190	-	PROP	☺
GAINESVILLE	W4ABP	146.670	-	T131.8	☺
GRIFFIN/CENAR	K4HYB	145.390	-	T88.5	☺
GRIFFIN/CENAR	K4HYB	146.910	-		☺
HARTWELL	N4VNI	146.895	-	T100.0	
HAWKINSVILLE	WR4MG	146.895	-	T107.2	
HINESVILLE	KG4OGC	147.015	+		
IRWINTON	WB4NFG	147.240	+	T77.0	
JASPER	KB4IZF	145.370	-	T100.0	☺
JASPER	K4UFO	146.700	-		☺
JASPER	KC4AQS	146.805	+	T100.0	
JESUP	WA4EQL	145.190	-		☺

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

GEORGIA REPEATERS CONTINUE

JESUP	WA9RNZ	145.430	-	T118.8	☺
JESUP	N4ZON	146.865	-	T123.0	☺
JESUP	N4PJR	146.925	-	T141.3	☺
JESUP/SCREVEN	N4PJR	147.345	+	141.3	☺
JONESBORO	WA4DIW	145.170	-		☺
JONESBORO	WA4OGE	145.330	-		
KIBBEE	K4HVK	146.820	-	T	☺
KINGSLAND	KC4WWU	147.285	+	T118.8	☺
LAFAYETTE	KB4VAK	147.375	+	T77.0	
LAGRANGE	KD4BWK	146.700	-	T141.3	
LAGRANGE	WB4BXO	147.330	+		
LAKE PARK	WR4SG	147.135	+	T141.3	☺
LAVONIA	K4NVG	146.715	-	T100.0	☺
LAWRENCEVILLE	W4GR	147.075	+	82.5	
#LINCOLNTON	KT4N	147.120	+	UNCOR	
LOOKOUT MT	W4GTA	145.350	-	T100.0	☺
LOOKOUT MT.	W4RRG	146.760	-	T67.0	☺
MACON	W4BKM	145.370	-	T88.5	☺
MACON	AA4RI	145.430	-		☺
MACON	WR4DH	146.730	-	T100.0	☺
MACON	K4PDQ	146.805	-	T77.0	☺
MACON	WA4DDI	147.060	+	T	☺
#MACON	KF4XH	147.165	+	UNCOR	
MADISON	WB4DKY	146.865	-	T179.9	☺
MADRAS	N4OME	147.165	+	T131.8	☺
MARIETTA	W4LMA	145.490	-	88.5	
MARIETTA	N4NEQ	146.775	-	T151.4	☺
MARIETTA/ATLANTA	W4BTI	146.880	-	T100.0	☺
MCINTYRE	KF4CXL	145.150	-	T77.0	☺
MCINTYRE	KF4CXL	145.250	-	T136.5	☺
MILLEDGEVILLE	WB4DOJ	146.700	-	T67.0	☺
MILLEDGEVILLE	KE4UWJ	147.135	+	T123.0	☺
MONROE	KF4GHF	147.270	+	T162.2	☺
MORGANTON	N4NEQ	147.165	+	T151.4	☺
MOULTRIE	WD4KOW	146.790	-		☺
NASHVILLE	KB4JF	145.310	-	T141.3	
NEWNAN	K4SEX	145.130	-	156.7	☺
NEWNAN	K4SEX	146.790	-		☺
OCILLA	KD4MFS	145.350	-		☺
PEMBROKE	KF4DG	147.105	+		
PEMBROKE	W4CJB	147.390	+		
PERRY	WR4MG	145.290	-	T107.2	
PERRY	WR4MG	146.955	-	107.2	
PINE MT/HAMILTON	WB4ULJ	145.190	-		
QUITMAN	WA4NKL	146.880	-		☺
RICEBORO	KG4OGC	145.470	-		
RINGGOLD	W4ABZ	146.715	-	T67.0	
ROME	WB4YSV	147.300	+		
ROME/MT. ALTO	W4VO	146.940	-	88.5	
ROSWELL	N4CLA	147.060	+		
SANDERSVILLE	KT4X	145.270	-	T77.0	☺
SAVANNAH	K4NLX	146.700	-	PROP	
SAVANNAH	K4SDJ	146.850	-		☺
SAVANNAH	W4HBB	146.880	-		☺
SAVANNAH	W4HBB	146.970	-		☺
SAVANNAH	WA4IDS	147.150	+		
SAVANNAH	K4NLX	147.210	+		
SAVANNAH	K4NLX	147.330	+	PROP	
SNELLVILLE	KR4NQ	147.255	+	T107.2	☺
SPRINGFIELD	AF4VH	146.745	-	PROP	
ST SIMONS ISLAND	N4XGI	145.330	-	T131.8	☺
STOCKBRIDGE	WA4JDR	145.310	-		☺
STONE MT	W4BOC	146.760	-	T107.2	
SUMMERVILLE	W4RLP	147.225	+	100.0	☺
SWAINSBORO	K4VYX	146.790	-		
SWEAT MT/MARIETT	N4CLA	145.470	-		
THOMASTON	W4OHH	147.390	+	131.8	☺
THOMASVILLE	W4UCJ	147.060	+		
THOMSON	KC4GSS	146.835	-		☺
TOCCOA	N4MTN	147.330	+		☺
UNADILLA	WR4MG	146.760	-	T107.2	
VALDOSTA	WR4SG	145.130	-	T141.3	☺
VALDOSTA	KF4BJM	146.760	-	141.3	
VIDALIA	K4HAO	146.625	-		☺
WALESKA/PNLG MT	K4AIS	145.270	-	T100.0	☺
WALESKA/PNLG MTN	K4AIS	147.015	-	T100.0	☺
WARM SPRINGS	KN4FE	146.985	-		
WARNER ROBINS	WA4ORT	146.850	-		☺
WARNER ROBINS	WB4BDP	147.180	+	107.2	☺
WARNER ROBINS	WR4MG	147.300	+	107.2	
WATKINSVILLE	KD4AOZ	147.045	+	T123.0	☺
WAYCROSS	AE4PO	146.640	-	T141.3	☺
WAYCROSS	AE4PO	147.255	+	T141.3	☺
WAYNESBORO	K4BR	145.230	-		
WRENS	KB4NA	146.775	-		
WRIGHTSVILLE	WA4RVB	146.940	-		☺
YOUNG HARRIS	K2YRW	147.090	+		☺

220 MHZ

ACWORTH/ATL	N4MTA	224.320	-	T123.0	☺
ACWORTH/ATL	N4MTA	224.500	-	T123.0	☺
ALPHARETTA	NX9O	224.580	-	100.0	
ALPHARETTA	KC4JNN	224.860	-	T100.0	☺
ATLANTA	W4DOC	224.340	-	T146.2	☺
ATLANTA	KK4C	224.820	-	T77.0	
#ATLANTA-NE	KC4OVY	224.200	-	UNCOR	
ATLANTA/BELL	W4PME	224.620	-	100.0	☺
ATLANTA/MARIETTA	N4NFP	224.120	-	T151.4	☺
ATLANTA/MARIETTA	N4NEQ	224.440	-	T151.4	☺
ATLANTA/MARIETTA	K4RFL	224.960	-	T100.0	☺
AUGUSTA	WB4KXO	224.940	-		
BISKEY MTN	KC4JNN	224.160	-	T100.0	☺
CEDARTOWN	KC4KLW	224.780	-	T179.9	☺
CLAYTON	W4UWH	224.720	-	PROP	☺
CONLEY	N4MNA	224.280	-		☺
#CONYERS	WB4JEH	224.020	-	UNCOR	
DAHLONEGA	N4RBT	224.380	-	T100.0	☺
DALLAS	N4YDX	224.180	-		
DALLAS	N4YEA	224.540	-		☺
DALLAS	W4TIY	224.700	-		☺
DALTON	N4BZJ	224.360	-	T	
DALTON	N4BZJ	224.460	-	T118.8	
DALTON	N4BZJ	224.680	-		
DALTON	N4KVC	224.740	-	T	
DECATUR	W4BOC	224.760	-		
EATONTON	K4SWS	224.100	-	PROP	
FT MT/CHATSWTH	N4YYD	224.240	-	T71.9	
GAINESVILLE	W4TL	224.840	-	T203.5	☺
HAWKINSVILLE	WR4MG	224.820	-	PROP	
JASPER	KC4AQS	224.400	-	T100.0	
JASPER	W4UWH	224.600	-	100.0	☺
LOOKOUT MT	W4RRG	224.560	-	T	☺
LOOKOUT MT.	W4RRG	224.640	-		☺
MARIETTA	KE4QFG	224.260	-	T110.9	☺
MARIETTA	W4LMA	224.900	-		
PINE LOG MTN	K4AIS	224.520	-		☺
RAY CITY	KB0Y	224.220	-	141.3	☺
SNELLVILLE	W4CSX	224.920	-	T100.0	
VALDOSTA	KB0Y	224.460	-	T141.3	☺
VILLA RICA	KB4TIW	224.300	-	T131.8	☺
WALESKA	KD4ALC	224.140	-		
WALESKA/PNLG	K4AIS	224.940	-		☺
WARNER ROBINS	WR4MG	224.840	-		
WATKINSVILLE	KD4AOZ	224.420	-	T123.0	☺
YORKVILLE	WD4LUQ	224.880	-	T77.0	☺
YOUNG HARRIS	NP2Y	224.660	-	PROP	☺

440 MHZ

ACWORTH	KC4YNF	441.800	+	T77.0	
ALBANY	W4MM	444.500	+		☺
ALPHARETTA	WB6RTH	442.000	+	107.2	☺
ATHENS	AA4AI	442.950	+	T179.9	☺
ATHENS	WW4GA	443.300	+	T	☺
ATHENS/CRAWFORD	KC4GZX	444.300	+	T127.3	
ATL/MARIETTA	N4NFP	442.800	+	T	☺
ATL/UNION CITY	W4ZT	442.125	+	T100.0	
ATLANTA	W4CML	442.025	+	T127.3	
ATLANTA	WB5EGI	442.225	+	PROP	☺
ATLANTA	N4XQM	442.525	+	T110.9	☺
ATLANTA	KE4PVE	442.675	+	T100.0	
ATLANTA	WA4YNZ	442.975	+	T	
ATLANTA	W4CML	443.025	+	T127.3	
ATLANTA	KA5WZY	443.600	+	T146.7	
ATLANTA	W4CML	443.650	+	PROP	
ATLANTA	KD4LXT	443.875	+		
ATLANTA	W4DOC	444.450	+	T146.2	☺
ATLANTA	KD4GPI	444.500	+	T110.9	☺
ATLANTA	W4DOC	444.825	+	T146.2	☺
ATLANTA	WA4NNO	444.925	+		
ATLANTA	WA4YNZ	444.975	+	T	
ATLANTA/BELL	W4ZTL	421.250	+		☺
ATLANTA/BELL	W4PME	444.150	+	T100.0	☺
ATLANTA/GLENRI	WR4CW	444.100	+	PROP	☺
ATLANTA/MARIETTA	K4RFL	442.875	+	T100.0	☺
ATLANTA/MARIETTA	N4NFP	443.800	+	T151.4	☺
ATLANTA/MARIETTA	N4NEQ	444.050	+	T151.4	☺
ATLANTA/MARIETTA	N4NEQ	444.775	+	151.4	☺
AUGUSTA	KD4BOO	444.900	+		☺
BAINBRIDGE	W4DXX	443.000	+	100.0	☺
BALDWIN	WD4NHW	442.350	+		☺
BARNESVILLE	N4GWO	443.675	+		
BISKEY MTN	KC4JNN	443.250	+	T100.0	☺
BLAIRSVILLE	KF4SKT	442.200	+		
BLAIRSVILLE	W6IZT	444.600	+	PROP	
BLUERIDGE	KD4GRU	442.125	+	146.2	
BOGART	W4EEE	443.475	+	T	☺
BONAIRE	K4EDN	444.625	+	T82.5	
BRUNSWICK	KD4CPO	443.425	+		
BRUNSWICK	K4TVE	444.975	+		
BYRON	KF4XH	443.150	+		
BYRON	WB4SBT	444.700	+	T103.5	☺
CALHOUN	K4WOC	443.675	+	T100.0	
CANTON	WA4EOC	443.075	+	T107.2	
CARROLLTON	W4FWD	444.075	+	T131.8	☺
CARTERSVILLE	K4AIS	443.175	+	T100.0	☺
CEDARTOWN	KD4NTF	443.575	+	T107.2	☺
CHATSWORTH	W4DRC	443.000	+		
CLAYTON	W1CP	442.825	+	T162.2	☺
CLERMONT	W4TL	444.950	+	T131.8	☺
CLEVELAND	K4VJM	442.625	+	T100.0	
COBB COUNTY	WC4RAV	443.450	+	T103.7	
COCHRAN	W4MAZ	442.875	+	T77.0	☺
COCHRAN	N4MXC	444.775	+	PROP	
COCHRAN	W4MAZ	444.975	+	77.0	☺
COLLEGE PARK	KG4PTO	442.350	+	OT	☺
COLUMBUS	WB4ULK	441.975	+	PROP	
COMMERCE	NE4GA	441.975	+	T123.0	☺
CONCORD	WB4GWA	443.400	+	118.8	
CONYERS	WB4JEH	442.550	+	T151.4	
CONYERS	KB2DZA	443.725	+	T77.0	
CONYERS	WB4JEH	444.550	+	T151.4	
CONYERS	KC4ELV	444.750	+	T162.2	☺
CORNELIA	K4JLG	444.275	+	T100.0	☺
COVINGTON	K4GO	443.750	+	T146.2	
COVINGTON	KE4PVE	444.175	+	T100.0	
COVINGTON	WA4ASI	444.800	+	T88.5	
CUMMING	WB4GQX	441.900	+	T141.3	☺
CUMMING	WA4BPY	442.575	+	T79.9	☺
CUMMING	N1IB	443.400	+	PROP	
CUMMING	W4CBA	444.625	+	T123.0	☺
DACULA	KK4IN	443.550	+		
DAHLONEGA	N4KHQ	443.100	+	100	☺
DAHLONEGA	N4BBQ	444.900	+	T100.0	☺
DALLAS	W4CSX	441.925	+	T162.2	
DALLAS	WB4QOJ	443.475	+	PROP	☺
DALLAS	W4TIY	443.700	+		☺
DALLAS	WD4LUQ	444.700	+	T77.0	☺
DALLAS	AG4PR	444.725	+	PROP	☺
DALTON	KC4YVV	441.850	+	PROP	
DALTON	W4LAW	441.875	+	PROP	
DALTON	N4BZJ	442.175	+	T118.8	
DALTON	N4BZJ	444.500	+	T118.8	
DALTON	N4BZJ	444.850	+		
DANIELSVILLE	KE4FHN	442.650	+	T	
DECATUR	N3APR	442.200	+		
DECATUR	KA4UFM	443.950	+	T110.9	☺
DECATUR	W4BOC	444.250	+		
DEVEREUX	KC4YAP	444.575	+	PROP	☺
DOUGLAS	KE4ZRT	443.000	+	T141.3	☺
DOUGLASVILLE	W4SCR	444.575	+	T88.5	☺
DUBLIN	KD4FOG	442.600	+	T77.0	☺
DULUTH	W2SJB	442.400	+	PROP	
EATONTON	K4SWS	442.425	+	PROP	
ELLIJAY	KC4ZGN	442.700	+	T77.0	
EMERSON	AE4JO	443.425	+	T103.5	☺
FAYETTEVILLE	W4PSZ	444.600	+	T77.0	
FLOWERY BRANCH	K4RHJ	443.900	+	T131.8	☺
FOLKSTON	KD4GEY	444.475	+		☺
FT. MT/CHATSWTH	N4YYD	443.350	+	T71.9	
GAINESVILLE	W4CBA	444.350	+	PROP	☺
GRAY	K4MDS	443.625	+		
GRAY	K4DDH	444.275	+	T100.0	
GREENSBORO	N4YXL	444.850	+	PROP	
GRIFFIN	KF4QLF	441.850	+		☺
GRIFFIN	KE4WLP	443.550	+		☺
HAMILTON	WB4ULJ	444.400	+		
HAPEVILLE	KC4ENL	442.825	+	T167.9	
HELEN	K4PE	444.425	+	T127.3	
HIAWASSEE	KC4CBQ	444.675	+	186.2	
HIGH PT/LOOKT MT	KB4VAK	443.450	+	T77.0	
HINESVILLE	KG4OGC	444.850	+	PROP	
HOGANSVILLE	KC4YNY	444.300	+	PROP	
IRWINTON	WB4NFG	444.925	+	T77.0	
JASPER	N3DAB	442.750	+	T141.3	☺
JASPER	KC4AQS	443.375	+	T100.0	
JASPER	KB4MDE	443.425	+		
JASPER	KF4OYP	443.625	+	T100.0	
JASPER	KB4IZF	444.375	+	T103.5	☺
JESUP	N4PJR	444.925	+	T141.3	☺
JONESBORO	WA4DIW	443.225	+		
KENNESAW	WK4E	442.425	+	PROP	☺
KINGSLAND	KC5BMJ	444.625	+	T118.8	☺
KINGSTON	AF4PX	444.125	+	T	
KNOXVILLE	N4PQR	443.525	+	PROP	
LAKEMONT	N4ZRF	444.750	+	T	
LAVONIA	K4NVG	442.475	+	T203.5	☺
LAWRENCEVILLE	WB4HJG	442.850	+	T82.5	☺
LAWRENCEVILLE	KF4RLZ	442.900	+	T123.0	☺
LAWRENCEVILLE	WB4QDX	444.000	+	T127.3	☺
LAWRENCEVILLE	W4CML	444.025	+	T127.3	
LINDALE	KA4ZTY	443.300	+	T100.0	
LITHIA SPRINGS	WB4RL	442.925	+	PROP	
LOOKOUT MT	W4RRG	442.650	+	T100.0	☺
LULA	WB4HJG	444.400	+	T71.9	☺
MABLETON	W4JLG	442.325	+	T	☺
MACON	AF4UL	442.000	+	PROP	
MACON	K4DDH	442.275	+	T100.0	☺
MACON	W4MAZ	442.700	+	PROP	☺
MACON	WX4EMA	443.075	+	T156.7	
MADRAS	K4HAC	442.250	+	T141.3	
MARIETTA	N1KDO	442.050	+	T107.2	☺
MARIETTA	KE4QFG	442.375	+	T	☺
MARIETTA	WA4OKJ	442.600	+	T100.0	
MARIETTA	N4MTA	443.500	+		☺
#MARIETTA	KF4BMG	443.750	+	UNCOR	
MARIETTA	KF4BMG	444.325	+	T79.7	
MARIETTA/ATL	KE4QFG	442.725	+	T	☺
MARLOW	W1MED	442.475	+	T114.8	☺
MCDONOUGH	KE4UAS	444.875	+	T82.5	☺
MCINTYRE	K4YC	443.200	+	T77.0	
MCINTYRE	KF4CXL	444.650	+	T77.0	☺
MONROE	KQ4XL	443.925	+	T123.0	
MOULTRIE	W1BPP	444.625	+	T123.0	☺
NEWNAN	K4NRC	441.875	+	T156.7	☺
NORCROSS	K4HUM	442.100	+	T100.0	☺

SYMBOLS: ☺ = Full Member SERA T=Tone Accessed (plus tone freq)
# and/or UNCOR = Uncoordinated PROP = Proposed Rptr. Under Const.

GEORGIA REPEATERS CONTINUE

PEACHTREE CITY	W4PSZ	442.500	+	T77.0	
PEMBROKE	AF4MI	441.800	+	T123.0	
PERRY	WR4MG	444.950	+		
PINE LOG MT	KD4APP	443.200	+	T103.5	
QUITMAN	WA4NKL	444.600	+	T127.3	☺
REX	KB4NPO	443.975	+	PROP	
RINGGOLD	KW4KW	442.300	+	PROP	
RINGGOLD	W4BAB	443.925	+		
ROCKMART	KC4KLW	443.275	+	T179.9	☺
ROME	KA4MLK	441.825	+	T100.0	☺
ROME	KC4KLW	443.525	+	T179.9	☺
ROSSVILLE	W4RRG	442.475	+	T100.0	
ROSWELL	W8BLA	442.075	+	T	
ROSWELL/BELL	W4PME	443.150	+	100.0	☺
SANDY SPRINGS	KE4OKD	441.950	+	T156.7	
SAVANNAH	K4NLX	421.250	+		
SAVANNAH	WA4VHP	427.250	+	T	
SAVANNAH	K4NLX	442.700	+		
#SAVANNAH	WD4AFY	444.000	+	UNCOR	
SMYRNA	N4IBW	444.650	+		
SNELLVILLE	W4CML	442.450	+	T	
SNELLVILLE	N1IP	443.050	+	T	
SNELLVILLE	W4GR	444.525	+	82.5	
ST SIMONS ISLAND	N4XGI	442.950	+	T131.8	☺
STATHAM	WW4T	442.300	+	T	☺
STOCKBRIDGE	KG4PUW	443.125	+	PROP	
STOCKBRIDGE	N4JMD	443.325	+	T	
STONE MTN	KD4HPD	443.825	+	T123.0	☺
SUGAR HILL	N4YF	443.775	+	T82.5	☺
SUMMERVILLE	W4LAW	444.425	+	PROP	
SWEAT MT/MARIETT	N4CLA	444.475	+		
TIFTON	KE4RJI	444.875	+	T	☺
TYRONE/PTC	KN4YZ	444.675	+	T77.0	☺
VALDOSTA	WR4SG	444.350	+	T141.3	☺
VALDOSTA	KF4BJM	444.700	+	T141.3	
VIDALIA	KE4PMP	442.500	+	T88.5	☺
VILLA RICA	KB4TIW	442.775	+	T131.8	
#WALESKA	KD4DXR	441.350	+	UNCOR	
#WALESKA	K4PLM	443.850	+	UNCOR	
WARM SPRINGS	N4UER	442.400	+		
WARNER ROBINS	WR4MG	442.900	+		
WATKINSVILLE	KD4AOZ	444.725	+	T123.0	☺
WAYCROSS	AE4PO	444.025	+	T141.3	☺
WOODSTOCK	KE4SJO	444.225	+		
WRIGHTSVILLE	WA4RVB	443.025	+	T156.7	

900 MHZ

ATLANTA	KG4LMT	927.500	-	223.0	
DAHLONEGA	N8EKA	927.525	-	T100.0	☺
HOSCHTON	W4BIW	927.537	-	PROP	
#SAVANNAH	WA4VHP	923.000	-	UNCOR	
VALDOSTA	KB0Y	927.4875	-	T141.3	☺

1270 MHZ

ATLANTA/BELL	KB4KIN	1292.000	-		☺
ATLANTA/MARIETTA	N4NEQ	427.250	+		☺
DALTON ATV	N4BZJ	421.250	+		

KENTUCKY

10 METERS

BUCKHORN LAKE	K4XYZ	29.620	-	103.5	☺
INGLE	KA4UHL	29.680	-	T146.2	☺
LOUISVILLE	KK4CZ	29.640	-		

6 METERS

ASHLAND	KC4QK	53.010	-	T107.2	☺
BUCKHORN LAKE	K4XYZ	53.730	-	PROP	☺
DORTON	WR4AMS	53.350	-	PROP	
HAZARD	K4TDO	53.850	-		☺
HIGHLAND HEIGHTS	AD4CC	53.330	-	123.0	☺
HIGHLAND HEIGHTS	W4YWH	53.750	-	123.0	☺
LAGRANGE	WB4WSB	53.950	-	PROP	
LAWRENCEBURG	N4EQT	53.130	-	T107.2	
LEXINGTON	KE4LGL	53.570	-		
LONDON	KE4ZJT	53.910	-	T100.0	☺
LOUISVILLE	KF4UAQ	53.290	-		
LOUISVILLE	N7BBW	53.430	-	T151.4	☺
LOUISVILLE	WB4LBR	52.025	+		
NANCY	KA4UHL	53.270	-	T100.0	☺
NICHOLASVILLE	N4ALG	53.090	-	103.5	
#STANTON	WD4KNE	53.810	-	UNCOR	
WAYNESBURG	KE4RKF	53.390	-	T100.0	☺
WILLIAMSBURG	KB4PTJ	53.070	-	T100.0	☺

PLEASE NOTE

The Repeater Journal lists subtones used on repeaters ONLY if they are requested to be listed by the sponsor or owner. The listing of a subtone on any repeater does not in any way indicate it being a "Closed" repeater. Generally in most cases, the tones are used to eliminate noise problems and are listed at the owners request for users convenience.

2 METERS

ALLEN	K4ICN	147.300	+	T123.0	☺
#ARTEMUS	N4INT	147.390	+	UNCOR	
ASHLAND	KG4DVE	146.940	-		☺
ASHLAND	KC4QK	147.240	+	T107.2	☺
ASHLAND	WA8KWH	147.330	+		
AUBURN	W6ZP	145.450	-	PROP	☺
BARBOURVILLE	KF4CME	147.135	+	100.0	
BARDSTWN/NELSN	WB4GGH	145.470	-	151.4	☺
BENTON	KC4KAN	145.390	-	T118.8	☺
BEREA	KF4OFT	146.715	-	100.0	
BLACK MTN	KM4M	147.210	+	T103.5	
BOWLING GREEN	K4LOL	147.060	+	156.7	☺
BOWLING GREEN	W4WSM	147.165	+		☺
BOWLING GREEN	KA4CFW	147.330	+		☺
BOWLING GREEN-SO	W4WSM	146.655	-		☺
BROOKS	KY4KY	146.700	-	T151.4	☺
BUCKHORN LAKE	K4XYZ	147.375	+	T103.5	☺
CADIZ	KT4SH	147.195	+	103.5	
CANE VALLEY	WA4UXJ	146.640	-		☺
CORBIN	WD4KWV	146.610	-		☺
COVINGTON	WR8CRA	147.390	+	T123.0	
CRESTWOOD	KY4OC	147.390	+	T151.4	☺
DANVILLE	WD4DZC	146.655	-		☺
DAVID	KC4KZT	145.310	-	T	☺
#DIXON	N4IOX	147.255	+	UNCOR	
DORTON	KC4KZT	146.895	+	T141.3	☺
DRAKESBORO	KF4DKJ	146.820	-	T	
ELIZABETHTOWN	W4BEJ	146.980	-		
ELKTON	AC4RS	145.430	-	PROP	☺
FARMINGTON	W4GZ	147.240	+	T91.5	
FLEMINGSBURG	KF4BRO	146.955	-	T107.2	☺
FLORENCE	K4JBV	146.895	-	100.0	
FRANKFORT	N4EQT	147.105	+	T107.2	
FRANKFORT	KC4AI	147.240	+	T100.0	
FRANKLIN	KE4SZK	147.135	+	PROP	
GEORGETOWN	KF4NTQ	146.685	-	107.2	
GLASGOW	KY4X	146.940	-		☺
GRAYSON	KD4DZE	146.700	-	107.2	☺
GREENVILLE	WA4TTC	146.745	-		
GRETHEL	KJ4VF	147.045	+	T100.0	☺
GUTHRIE	KA4NNE	146.805	-	100.0	☺
HALLS GAP	W8PRH	145.170	-		☺
HALLS GAP	AG4TY	146.790	-	PROP	☺
HARLAN	WA4ZAC	147.105	+		
HAWESVILLE	KY4HC	146.715	-	PROP	
HAZARD	KF4SJO	146.670	-		☺
HAZARD	W8PRH	146.805	-		☺
HENDERSON	W4KVK	145.490	-		
#HENDERSON	K4DPP	146.970	-	UNCOR	
HIGHLAND HEIGHTS	W4YWH	146.790	-	123.0	☺
HIGHLAND HTS.	K4CO	147.255	+	T123.0	☺
#HODGENVILLE	W4LJM	147.315	+	UNCOR	☺
HOPKINSVILLE	KF4FO	146.710	-		
HOPKINSVILLE	KD4ULE	147.030	+	T103.5	☺
HUEYSVILLE	K4NLT	145.470	-	T79.7	☺
HYDEN	KF4TLT	147.240	+	186.2	☺
IRVINE	W4CMR	146.820	-	192.8	
IRVINE	AD4RT	147.015	+		
JACKSON	WA4MXO	145.410	-		☺
#JONATHAN CREEK	N4SEI	146.985	-	UNCOR	
LARUE	WA4FOB	146.670	-	T77.0	
LAWRENCEBURG	N4EQT	145.390	-	T107.2	
LEBANON	WD4JZH	147.345	+	T151.4	
LEBANON JCT.	KD4YGK	147.150	+	79.7	☺
LEESBURG	KC4UPE	145.110	-	T192.8	☺
LEXINGTN/GRGTWN	W8PRH	145.210	-		☺
LEXINGTON	AD4YJ	145.250	-	110.9	
LEXINGTON	WB4CWF	145.490	-		
LEXINGTON	AC4AO	146.730	-		☺
LEXINGTON	K4KJQ	146.760	-		☺
LEXINGTON	WA4HBM	147.165	+		☺
LEXINGTON	KJ4VF	147.195	+		☺
LITCHFIELD	KY4SP	147.225	+	179.9	
LONDON	KE4ZJT	147.180	+	T151.4	☺
LONDON	KC4ZFH	147.285	+	T	
LOUISA	N8QCW	147.390	+	127.3	☺
LOUISVILLE	KG4CCW	145.150	-	141.3	
LOUISVILLE	W8PRH	145.230	-		☺
LOUISVILLE	AC2DC	145.290	-	T151.4	☺
LOUISVILLE	KK4CZ	145.410	-	151.4	
LOUISVILLE	W4PF	146.880	-		
LOUISVILLE	W4PJZ	147.030	+	151.4	☺
#LOUISVILLE	N4MRM	147.070	+	UNCOR	☺
#LOUISVILLE	KA4KMT	147.120	+	UNCOR	
LOUISVILLE	W4CN	147.180	+	88.5	☺
LOUISVILLE	WB4EJK	147.270	+	151.4	
LOUISVILLE	KQ9Z	147.360	+		
LOUISVILLE AREA	N4UL	145.130	-	T151.4	
LYNN GROVE	KA4BLZ	146.895	-	T210.7	
MADISONVILLE	KC4FRA	146.610	-		☺
MARION	KA4FGA	147.285	+	PROP	
MAYSVILLE	KF4BRO	145.470	-	T107.2	☺
MIDDLESBORO	KA4WZX	146.775	-		
MILLARD	KD4RTR	146.745	-	T141.3	☺
#MONTECELLO	WB9SHH	146.395	+	UNCOR	☺
MONTICELLO	KY4JW	145.150	-	100.0	☺
MOREHEAD	KJ4VF	145.130	-	T100.0	☺
MOREHEAD	K4GFY	146.910	-	T123.0	
MT. STERLING	W4JTL	147.330	+	T103.5	
MURRAY	K4MSU	146.940	-	T91.5	☺
#NEBO	AA4NI	146.730	-	UNCOR	
OWENSBORO	N4WJS	146.685	-	110.9	☺
OWENSBORO	AD4MU	146.865	-		
OWENSBORO	K4HY	147.210	+	110.9	☺
OWINGSVILLE	N4TLP	147.075	+		
PADUCAH	K4CUW	146.655	-	T	
PADUCAH	K4CUW	146.760	-		
PADUCAH	W4NJA	147.060	+	103.5	☺
PADUCAH	KD4DVI	147.120	+	PROP	☺
PAINTSVILLE	N4KJU	145.270	-	T127.3	☺
PARIS	KE4OOS	147.045	+	PROP	
PAYNEVILLE	K4ULW	146.625	-	T151.4	☺
PHELPS	N4MWA	147.090	+	PROP	☺
PIKEVILLE	AD4BI	145.150	-	107.2	
PIKEVILLE	KM4IV	146.850	-		
PRESTONSBURG	WB4UBY	147.165	+		
PRINCETON	W4KBL	145.230	-	103.5	
PRINCETON	W4KBL	146.670	-		
#PROVIDENCE	N4IUI	147.330	+	UNCOR	
RADCLIFF	AI4HB	145.350	-	173.8	
RADCLIFF	W4BEJ	146.925	-		
RICHMOND	KE4YVD	145.370	-	T192.8	☺
RICHMOND	KG4AEU	146.865	-	192.8	
ROCKPORT	KD4BOH	145.270	-	77.0	☺
SALEM	KC4VXR	147.315	+		
SALVISA	KF4AWA	146.835	-	T192.8	☺
SALYERSVILLE	KB4SQI	145.190	-	T127.3	
SANDY HOOK	KF4WMM	147.135	+	T107.2	☺
SHELBYVILLE	KE4LR	147.000	+		☺
SO. PORTSMOUTH	KC8FKP	145.390	-	136.5	
SOMERSET	KA4UHL	146.880	-	77.0	☺
SPRINGFIELD	WA4SJH	147.300	+		
ST. CHARLES	KE4AIE	147.270	+		☺
STANTON	N4VOS	145.290	-		
STANTON	W8PRH	146.970	-		☺
TOMPKINSVILLE	KJ4OG	146.775	-		☺
VANCEBURG	AE4SK	146.775	-		☺
VERSAILLES	KF4INN	145.330	-		
WADDY	KS4TO	146.910	-	T107.2	
WALTON	K4CO	147.375	+	123.0	☺
WEST LIBERTY	KG4GQC	145.230	-	107.2	
WILLIAMSBURG	KG4M	147.000	+		
WINCHESTER	KF4CBT	145.430	-	PROP	
WINCHESTER	WB4ASZ	147.120	+		☺
WINCHESTER	KJ4VF	147.195	+	PROP	

220 MHZ

ASHLAND	KC4QK	223.940	-		☺
BUCKHORN LAKE	K4XYZ	224.460	-	PROP	☺
DORTON	WR4AMS	224.520	-		☺
GARRETT	K4NLT	224.260	-	PROP	☺
HAZARD	WR4AMS	224.820	-		☺
HOPKINSVILLE	WD9HIK	224.780	-	PROP	
IRVINE	AD4RT	224.940	-		
LANCASTER	KD4RXF	224.560	-		
LAWRENCEBURG	N4EQT	224.900	-	T107.2	
LEXINGTON	AC4AO	224.420	-		☺
LONDON	WR4AMS	224.980	-		☺
LOUISVILLE	KA4MKT	224.300	-		
LYNCH	K4TDO	224.320	-		☺
META	WR4AMS	224.380	-	PROP	
MIDDLESBORO	WM4MD	224.120	-	T82.5	
MOREHEAD	KJ4VF	224.760	-	PROP	
NANCY	KA4UHL	224.100	-	T100.0	☺
PIKEVILLE	WB4F	224.580	-		
PIKEVILLE	KD4DAR	224.620	-		☺
PRESTONSBURG	WR4AMS	224.720	-		☺
SOMERSET	N4AI	224.300	-		☺
SOMERSET	N4AI	224.880	-		☺
STANVILLE	KJ4VF	224.680	-	PROP	
VERSAILLES	AD4CR	224.220	-		

440 MHZ

ALLEN	N4IWZ	444.775	+	T123.0	☺
#ASHLAND	KC8ERN	444.750	+	UNCOR	
ASHLAND	KC4QK	444.975	+	T107.2	☺
BARDSTOWN	KT4GB	443.000	+		☺
BEATTYVILLE	KC4UPE	444.825	+	T192.8	☺
BEAVERLICK	KC4COV	443.475	+	T131.8	
BOWLING GREEN	W4HTB	426.250	+		☺
BOWLING GREEN	W4WSM	444.100	+		☺
BOWLING GREEN	WB4JM	444.700	+	T136.5	☺
BROOKS	KY4KY	443.700	+	151.4	☺
BRUSHY FORK	KF4WMM	444.600	+	88.5	☺
BUCKHORN LAKE	K4XYZ	443.400	+	103.5	☺
BURLINGTON	KD4EVB	443.525	+	T107.2	☺
CANE VALLEY	W4LJM	443.950	+	T	☺
CORBIN	KF4IFC	444.275	+	79.7	☺
CORBIN	WB4IVB	444.900	+	T100.0	
COVINGTON	KC4COV	444.175	+	T131.8	
COX'S CREEK	AE4NU	443.450	+	T151.4	☺

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

KENTUCKY REPEATERS CONTINUE

DAVID	KC4KZT	443.900	+	T167.9	☺
DAWSON SPRINGS	KU4MJ	444.275	+		
DORTON	KD4RTR	442.150	+	167.9	☺
DORTON	KJ4VF	443.250	+		☺
DRY RIDGE	KD4EVB	444.425	+	T107.2	☺
EARLINGTON	KG4WCQ	443.950	+	PROP	
ELIZABETHTOWN	W4BEJ	421.250	+		
ELIZABETHTOWN	W4BEJ	444.800	+		
ELKHORN CITY	KD4RTR	444.300	+	167.9	☺
FALMOUTH	KD4EVB	443.825	+	T107.2	☺
FLATWOODS	KZ4G	443.450	+	PROP	☺
FLORENCE	KC4COV	443.175	+	T131.8	
FORT WRIGHT	KY4JD	441.850	+	T	☺
FORT WRIGHT	KY4JD	442.525	+	T123.0	☺
FOSTER	KU4ML	443.125	+		
FRANKFORT	K4NGQ	442.175	+	T67.0	
FRANKFORT	WA4CMO	443.325	+		
FRANKLIN	KD4TAH	443.225	+		
GARRETT	KF4JJD	442.400	+	79.7	☺
GEORGETOWN	KF4NTQ	443.625	+		
GLASGOW	KY4X	444.925	+		☺
GLASGOW/CVCTY	KF4DC	444.250	+		
GRAEFENBURG	N4HZX	443.550	+		
GRETHEL	KJ4VF	444.525	+		☺
HARLAN	W4YMT	442.625	+	T100.0	
HAWESVILLE	KB4QFL	444.625	+		
HAZARD	K4TDO	443.975	+	103.5	
HENDERSON	KY4K	444.725	+	T82.5	
HIGHLAND HEIGHTS	W4YWH	444.900	+	123.0	☺
HOPKINSVILLE	KE4AIF	444.750	+	T103.5	
HORSECAVE	KF4QZN	444.850	+	PROP	
HUDSON	KY4SP	444.900	+	179.9	
INDEPENDENCE	KB8SBN	444.075	+	T110.9	
IRVINE	W4CMR	442.900	+		
IRVINE	AD4RT	444.000	+		
LATONIA	AA4XV	442.400	+	T	
LAWRENCEBURG	N4EQT	443.925	+	T107.2	
LEWISPORT	K4DC	444.550	+		☺
#LEXINGTON	KY4ATV	923.250	-	UNCOR	☺
LEXINGTON	KD4ADJ	442.050	+		☺
LEXINGTON	KE4OOL	443.025	+	T123.0	
LEXINGTON	KB8QLC	444.125	+	88.5	
LEXINGTON	KC4DUU	444.550	+		☺
LEXINGTON	KE4ISR	444.725	+	T	
LEXINGTON	N4DUE	444.950	+		☺
LOUISVILLE	N4ORL	442.000	+		
LOUISVILLE	KB4RYM	442.500	+		
LOUISVILLE	WD4ELX	442.550	+		☺
LOUISVILLE	KB4YJ	442.725	+	151.4	
LOUISVILLE	WD9EQC	443.500	+		
LOUISVILLE	N4KWT	443.975	+	100.0	
LOUISVILLE	N4UL	444.100	+	173.8	
LOUISVILLE	KG4JNM	444.300	+	156.7	
LOUISVILLE	N4NMC	444.600	+	T151.4	
LOUISVILLE AREA	N4RBL	442.100	+	T	
LOUISVILLE AREA	KD4CLR	442.450	+	T151.4	
LOUISVILLE SW	K4ULW	443.350	+		☺
MADISONVILLE	KC4FIE	442.425	+		☺
MADISONVILLE	AE4LW	442.575	+	T100.0	☺
MADISONVILLE	KC4FIE	442.775	+		☺
MADISONVILLE	KC4FIE	444.600	+		☺
MAMMOTH CAVE	KF4QZN	444.475	+	T179.9	
MANCHESTER	KD4GMH	444.500	+	PROP	
MARION	KR4PF	444.200	+	T100.0	☺
MAYSVILLE	KF4BRO	443.500	+	T123.0	☺
META	WB4UBY	443.500	+		
MIDDLESBORO	WM4MD	442.325	+	T67.0	
MIDDLESBORO	KD4PBC	443.150	+	PROP	
MIDDLESBORO	WB4IVB	444.150	+	T100.0	
MILLARD	KD4RTR	443.425	+		☺
MONTICELLO	WB9SHH	444.750	+		☺
MOREHEAD	K4GFY	442.500	+	T	
MOREHEAD	KJ4VF	443.250	+	PROP	
MORGANTOWN	KF4QZN	444.425	+	T179.9	
MT STERLING	KD4ADJ	442.600	+		☺
MURRAY	K4MSU	443.800	+	T91.5	☺
NANCY	KA4UHL	443.600	+	T100.0	☺
NEBO	AA4NI	444.850	+		
NICHOLASVILLE	KC4UPE	444.775	+	T167.9	☺
NICHOLASVILLE	WB4CWF	444.975	+		
OLIVE HILL	KO4LI	444.925	+		
OWENSBORO	N4WJS	443.100	+	T110.9	☺
OWENSBORO	N4WJS	443.650	+	110.9	☺
PADUCAH	KD4DVI	443.000	+	179.9	☺
PADUCAH	K9OWU	444.000	+	PROP	
PAINTSVILLE	N4KJU	441.525	+	127.3	☺
PHELPS	N4MVY	444.575	+		☺
PIKEVILLE	KD4RTR	444.200	+		☺
PIKEVILLE	KD4DAR	444.375	+		☺
PIKEVILLE	AD4BI	444.475	+		
PRESTONSBURG	K4AVY	443.825	+	127.3	☺
RICHMOND	KE4ISW	444.625	+	192.8	☺
RINEYVILLE	KF4RBD	444.225	+	PROP	
ROBINSON CREEK	KC4VYX	444.675	+		
ROCKPORT	KD4BOH	442.675	+	77.0	☺
ROCKPORT	KD4BOH	444.075	+	T77.0	☺
RUSSELLVILLE	KE4SZK	442.350	+	136.5	
SALEM	KC4VXR	444.825	+	T100.0	
SALVISA	KF4AWA	444.675	+	T203.5	☺
SALVISA	KC4UPE	444.875	+	T167.9	☺
SALYERSVILLE	KE4NLL	444.050	+	T127.3	
SHELBYVILLE	KE4YRE	442.375	+		
SHEPHERDSVILLE	AC4VV	444.400	+	T	☺
SIMPSONVILLE	KO4OT	444.450	+	T100.0	☺
SPRINGFIELD	W4SJH	444.600	+		☺
STANTON	N4VOS	442.075	+		
UNION	AD4CC	441.800	+	T179.9	☺
VERSAILLES	KF4INN	443.775	+		
WADDY	KS4TO	443.225	+		
WALTON	K4CO	444.350	+	123.0	☺
WAYNESBURG	AG4TY	442.975	+	PROP	
WHITESBURG	KK4WH	443.750	+	PROP	
WILLIAMSBURG	KB4PTJ	444.050	+	100.0	☺
WITHAMSVILLE	KC4COV	444.400	+	T131.8	

900 MHZ

LEXINGTON	KA4MKG	927.725	-	PROP	

MISSISSIPPI

10 METERS

BAY SAINT LOUIS	KB5MPW	29.640	-	T136.5	☺

6 METERS

BAY SAINT LOUIS	KB5MPW	53.650	-	T136.5	☺
ELLISVILLE	N5EKR	53.010	-	T	
JACKSON	W5PFC	53.470	-	PROP	
LAUREL	KC5PIA	53.450	-		☺
NETTLETON	AB5MU	53.050	-	192.8	

2 METERS

#ABBEVILLE	WB5VYH	145.470	-	UNCOR	
ABERDEEN	WB5USN	147.270	+	210.7	☺
ACKERMAN	NO5N	147.120	+		
AMORY	KB5DWX	146.940	-	T192.8	
AMORY	KB5DSN	147.090	+		
BAY ST. LOUIS	KB5MPW	146.700	-		☺
BILOXI	KC5IF	146.730	-		
BILOXI	K5TYP	146.790	-		
BOONEVILLE	K5YD	145.190	-	110.9	☺
BOONEVILLE	KI5WI	147.150	+		☺
BUDE	KD5QNC	146.850	-	T103.5	☺
BYHALIA	N4DRL	145.350	-		☺
CHATAWA	WB5GOJ	145.310	-		
CLEVELAND	KD5YTB	146.775	-	T107.2	
CLEVELAND	N5LRL	147.285	+	T107.2	
COLLINS	N5LRQ	146.985	-	T136.5	☺
COLUMBIA	N5LJC	147.285	+	PROP	
COLUMBUS	KC5ULN	146.625	-		☺
COLUMBUS	KC5ULN	147.000	+		☺
CORINTH	WB5CON	146.925	-	T107.2	☺
CORINTH	K5UFH	147.000	-		
CORINTH	K5WHB	147.285	+		☺
ELLISVILLE	W5NRU	145.230	-	PROP	
ELLISVILLE	N5EKR	146.955	-	T	
ELLISVILLE	W5NRU	146.865	+	T136.5	☺
ELLISVILLE	W5NRU	146.895	+	T136.5	☺
FLORENCE	KD5AXY	145.110	-	T	
FOREST	KC5QHP	147.390	+	T100.0	☺
#FRENCH CAMP	W5BJT	147.225	+	UNCOR	
FULTON	WX5P	145.450	-		☺
GLOSTER	KX5E	145.430	-	T136.5	
GREENVILLE	N5PS	147.345	+	PROP	
GREENWOOD	KA5TQY	146.715	-		
GRENADA	W5LV	146.700	-		☺
GULFPORT	KA5VFU	147.375	+		☺
HATTIESBURG	W5CJR	145.190	-	T136.5	☺
HATTIESBURG	K5IJX	145.370	-	136.5	
HATTIESBURG	K5PN	146.775	-	T136.5	☺
HATTIESBURG	KD5MIS	147.315	+	T136.5	
HATTIESBURG	W5CJR	147.360	+		☺
HERNANDO	K5VV	146.910	-		
HERNANDO	KD5VMV	147.225	+	PROP	
ISOLA	KC5OB	146.955	-		
IUKA	WB5MFK	146.850	-		
JACKSON	KB5KGE	145.390	-		
JACKSON	W5AXQ	146.760	-		☺
JACKSON	K5QNE	146.880	-	T100.0	☺
JACKSON	KA5SBK	146.940	-	100.0	☺
JACKSON	W5IQ	147.000	+	T	☺
JACKSON	NC5Y	147.075	+	T	
KILN	K5DMC	145.330	-		
KOSCIUSKO	W5LWC	146.850	-		
LAUREL	W5LAR	146.610	-		☺
LAUREL	WV5D	147.030	-	T	
LAUREL	KC5RC	147.255	+		
LOUISVILLE	KC5QGC	147.360	+		
LUCEDALE	WA5JZL	146.910	-		
MADISON	K5XU	146.640	-		☺
MAGEE	KA5LNY	146.820	-	100.0	
MAGEE	KA5LNY	147.300	+		☺
MCCOMB	KD5QNC	146.940	-	T	☺
MERIDIAN	KC5ZZH	146.655	-		☺
MERIDIAN	W5FQ	146.700	-		☺
MERIDIAN	KI5FW	146.970	-	100.0	☺
MONTICELLO	N5JHK	147.015	+		
MOOREVILLE	WB5NAY	146.640	-		
MORTON	KB5LCL	147.045	+	T141.3	
NATCHEZ	W5KHB	146.685	-	100.0	
NATCHEZ	K5OCM	146.910	-	91.5	
NATCHEZ	K5SVC	147.360	+	100.0	☺
#NEW ALBANY	KC5VZI	145.230	-	UNCOR	
NEW ALBANY	W5UBG	146.670	-		
#NEW ALBANY	KC5VZI	146.745	-	UNCOR	
NEW HEBRON	N5MRS	147.090	+	T	
OCEAN SPRINGS	W5LDD	147.030	+		☺
PASCAGOULA	KE5SJ	146.880	-		
PASCAGOULA	N5PH	146.970	-	T	
PEARL/RANKIN CO	KF5IZ	147.150	+	T88.5	
PELAHATCHIE	W5PPB	147.240	+	T77.0	☺
PHILADELPHIA	N5EPP	147.330	+		
PICAYUNE	KE5LT	145.150	-		☺
PONTOTOC	WB5NAY	147.380	+		
PORT GIBSON	KE5WO	146.625	-		
PURVIS	KB5ZCX	146.670	-		
RAYMOND	W5JWX	145.170	-	T77.0	
RICHTON	N5OCF	147.060	+	T	
SENATOBIA	KB5DMT	146.985	-	T107.2	☺
SHARON	W5PPB	145.450	-	T77.0	☺
SILVER CREEK	KC5YUX	147.195	+	T136.5	
SOUTHAVEN	N5PYQ	145.370	-	T107.2	
STARKVILLE	KD5GVU	146.730	-	210.7	☺
STARKVILLE	KF5C	146.805	-	192.8	
#SUMNER	WB5FXH	147.090	+	UNCOR	
TUPELO	N5VGK	145.490	-		
TUPELO	N5ELS	147.240	+		
UNION	N5SPJ	147.210	+	T100.0	
UTICA	N5ZMZ	145.350	-		
UTICA	KC5TGT	146.730	-	T77.0	☺
UTICA	N5ZMZ	147.345	+		
VANCLEAVE	W5WA	145.110	-	123.0	☺
#VANCLEAVE	KE5TL	147.000	-	UNCOR	
VICKSBURG	WJ5L	145.290	-		
#VICKSBURG	K5IMT	146.805	-	UNCOR	
VICKSBURG	K5ZRO	147.270	+	T100.0	☺
VOSSBURG	KB5UIX	147.135	+	136.5	
WALLS	N5NBG	145.270	-	T162.2	
WATER VALLEY	N5DXM	147.000	-		
#WAYNESBORO	W5SAR	145.210	-	UNCOR	☺
WAYNESBORO	W5SAR	147.105	+		☺
WAYNESBORO	N5DWU	147.315	+		
WEST POINT	KC5LIO	147.180	+		
WIGGINS	KB5DZJ	145.270	-	T136.5	☺
WINONA	N5EYM	146.970	-	110.9	

220 MHZ

BYHALIA	N4DRL	224.500	-		☺
VICKSBURG	WB5OWY	224.780	-		
WARSAW	N4DRL	224.880	-		☺

440 MHZ

ABERDEEN	KD5AHI	444.450	+	210.7	☺
AMORY	KB5DSN	444.825	+		
BYHALIA	N4DRL	444.300	+		☺
CLERMONT HARBR	WD5BJT	444.150	+	T77.0	
CLINTON	W5PFR	444.000	+	T100.0	☺
ELLISVILLE	AA5SG	442.200	+	T167.9	☺
ELLISVILLE	AA5SG	442.250	+	T136.5	☺
GAUTIER	KA5NOJ	911.250	-		
GAUTIER	KA5NOJ	426.250	+		
GAUTIER	KC5LCW	443.450	+	123.0	☺
GLOSTER	N5ZNS	443.825	+		
GREENVILLE	N5PS	444.675	+	100.0	
GRENADA	AD5IT	444.700	+	T107.2	
HATTIESBURG	K5PN	443.700	+	T136.5	☺
HAZLEHURST	N5ZDF	443.950	+	T100.0	
HEIDELBERG	KC5RC	444.300	+	T100.0	
HICKORY FLAT	W4ZCD	444.725	+	T179.9	
INDIANOLA	AB5DU	444.850	+	136.5	
JACKSON	KB5LCL	444.450	+	T141.3	
JACKSON	KB5CO	444.600	+	T100.0	☺
JACKSON	NC5Y	444.700	+		
JACKSON	KB5CO	444.800	+		
JACKSON, EAST	AA5RZ	443.625	+		
LAUREL	W5NRU	443.650	+	T100.0	
MCCOMB	N5HTQ	444.875	+	T100.0	
MERIDIAN	KB5BRZ	444.100	+	131.8	☺
MERIDIAN	W5LRG	444.500	+	107.2	☺
NATCHEZ	N5IAT	443.800	+		
NETTLETON	AB5MU	444.625	+	192.8	
NEW ALBANY	WB5YCR	444.150	+		
NEW HEBRON	N5NNI	444.525	+	T	
O'REILLY	N5PS	444.975	+	T100.0	
PEARL	KB5HAV	444.375	+	T88.5	
PETAL	W5CJR	443.350	+	T	☺
PHILADELPHIA	WB5YGI	444.950	+		
PICAYUNE	KE5LT	443.725	+	T179.9	☺
PINOLA	KC5LXF	444.850	+		
PORT GIBSON	KC5CLM	444.575	+	T141.3	☺
RICHTON	N5OCF	444.625	+		
RIDGELAND	N5WDG	443.700	+	T77.0	☺
SATARIA	N5PS	444.775	+	PROP	
SOUTHAVEN	NU5O	443.575	+	77.0	

SYMBOLS: ☺ = Full Member SERA T=Tone Accessed (plus tone freq)
# and/or UNCOR = Uncoordinated PROP = Proposed Rptr. Under Const.

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

MISSISSIPPI REPEATERS CONTINUE

SOUTHAVEN	N5PYQ	444.925	+	T107.2	
STARKVILLE	KD5GVU	444.750	+		☺
STENNIS SPC CEN	WB4FUR	444.650	+		
TUPELO	N5VGK	444.950	+	T192.8	
VICKSBURG	WB5TTE	444.925	+		
VOSSBURG	N5LRQ	442.725	+	T167.9	☺
WALLS	N5NBG	444.650	+		
WAYNESBORO	W5SAR	443.500	+		☺
WAYNESBORO	W5SAR	443.550	+		☺
WEST POINT	N5WXD	443.450	+		
WIGGINS	KB5DZJ	443.300	+	167.9	☺

NORTH CAROLINA

10 METERS

HIGH POINT	KE4QOX	29.640	-	T103.5	☺
NEWPORT	K4GRW	29.660	-	PROP	☺
ROCKY MOUNT	N4JEH	29.660	-		☺
THOMASVILLE	WW4DC	29.680	-	88.5	☺
WILKESBORO	KC4XE	29.620	-		☺
ZEBULON	WB4IUY	29.620	-		☺

6 METERS

AIR BELLOWS GAP	WA4PXV	53.750	-		
ASHEVILLE	WD4BQW	53.270	-	100.0	☺
BOONE	WA4NC	53.790	-	PROP	☺
CHAPEL HILL	W4UNC	53.450	-	T107.2	☺
CLINTON	W4TLP	53.330	-		☺
DURHAM	W4BAD	53.750	-		
EFLAND	WA1YYN	53.410	-	T107.2	☺
#FAYETTEVILLE	W4EBM	53.810	-	UNCOR	☺
GASTONIA	KC4YOT	53.110	-		☺
HENDERSONVILLE	W4FOT	53.130	-	T100.0	☺
KVILLE/HIPOINT	KF4QDS	53.590	-	T103.5	
LUMBERTON	KD4BGD	53.110	-		☺
MONROE	W4ZO	53.370	-	T100.0	
MT MITCHELL	AB4JJ	53.630	-	T100.0	☺
MT. AIRY	N4DAJ	53.970	-	T100.0	
MT.AIRY/FANCY GP	KD4FWS	53.070	-	T100.0	
PITTSBORO	KD4JFN	53.230	-	T107.2	☺
RALEIGH	K4ITL	53.030	-		☺
RALEIGH	W4BAD	53.190	-		
REELSBORO	KF4IXW	53.090	-	T162.2	☺
ROBBINSVILLE	KD4YWB	53.710	-	T167.9	
ROCKY MOUNT	N4JEH	53.050	-		☺
SAURATOWN MT	N4QLX	53.210	-		
SOPHIA/RANDLEMAN	WR4BEG	53.350	-		☺
SPRUCE PINE	WA4PXV	53.050	-	T151.4	
TARBORO	K4SER	53.110	-		☺
THOMASVILLE	KE4QOX	53.010	-	T88.5	☺
THOMASVILLE	WW4DC	53.170	-	88.5	☺
WEST JEFFERSON	AB4JJ	53.310	-	T100.0	☺
WEST JEFFERSON	AB4JJ	53.390	-	T100.0	☺
WILLIAMSTON	K4SER	53.310	-		☺
#WILMINGTON	AD4DN	53.430	-	UNCOR	☺
YOUNGSVILLE	KD4MYE	53.370	-	T	☺

2 METERS

#AHOSKIE	WB4YNF	145.130	-	UNCOR	☺
AHOSKIE	WA4ZGQ	146.910	-	T131.8	☺
ALBEMARLE	K4OGB	146.985	-	T100.0	☺
ANDRWS/ROBNSVL	K4AIH	147.045	-	151.4	☺
ANDSN MT/DENVER	K4CCR	145.170	-	88.5	☺
ASHEBORO	K4ITL	145.270	-	T82.5	☺
ASHEVILLE	WB4PLA	146.835	-		☺
ASHVL/MT PISGAH	WA4BVW	146.760	-		☺
ASHVL/SPIVEY MT	W4MOE	146.910	-	91.5	☺
BAKERSVILLE	W4NGH	145.310	-		☺
BENSON	KD4BJD	146.970	-		☺
BETHEL	KD4EAD	147.375	+	T151.4	☺
BEULAVILLE	N4VBH	145.230	-		
BOONE/RICH MTN	WA4J	147.360	+	T103.5	☺
BREVARD	K4HXZ	147.135	+		☺
BURGAW	K4CTY	146.940	-		☺
BURLINGTON	K4FHB	146.670	-		☺
BURNSVILLE	KD4WAR	146.955	-		
BURNSVILLE	KD4WAR	147.375	+		
BUTNER	WA4IZG	146.940	-	T156.7	
BUXTON	K4USB	146.625	-	131.8	☺
CANTON	W4DJB	146.805	+		☺
CARTHAGE	NC4ML	147.240	+		
CHAPEL HILL	W4UNC	145.230	-	T107.2	☺
CHAPEL HILL	K4ITL	147.135	+	T82.5	☺
CHARLOTTE	W4BFB	145.230	-		☺
CHARLOTTE	W4BFB	145.290	-		☺
CHARLOTTE	WA4AOS	145.350	-		☺
CHARLOTTE	W4BFB	146.940	-		☺
CHARLOTTE	W4CQ	147.060	-		☺
CHARLOTTE	W4CQ	147.270	+		☺
CHERRY MTN	KG4JIA	147.240	+	94.8	☺
CHINA GROVE	N4XO	145.410	-	136.5	
CLAREMONT	WB4SRV	147.225	+	T162.2	
CLAYTON	WB4IUY	147.390	+	T88.5	☺
CLINTON	W4TLP	146.790	-		☺
COINJOCK	WN3X	145.290	-	131.8	
COLUMBIA	KB4TOH	146.835	-	T131.8	☺
CONCORD/KANNAP.	K4CEB	146.655	-		☺
DOBSON	AD4T	146.925	-	T100.0	
DUNN	N4CID	146.700	-		☺
DURHAM	WR4AGC	145.450	-		
DURHAM	K4JPE	146.985	-	T156.7	☺
DURHAM	WD4LDB	147.360	+	136.5	☺
EDEN/REIDSVILLE	KI4CGV	147.030	+	PROP	☺
EDEN/STONEVILLE	WA4QBG	147.390	+		☺
EFLAND	WA1YYN	147.180	+	T156.7	☺
ELIZABETH CITY	KC4QLP	145.250	-	T131.8	
ELIZABETH CITY	WA4VTX	146.655	-	131.8	☺
ELM CITY	K2IMO	145.150	-	T88.5	
EMERALD ISLE	KI4RK	145.330	-	PROP	☺
FARMVILLE	K4ROK	145.270	-	T131.8	☺
FAYETTEVILLE	WA4FLR	147.330	+		
FAYVLLE/CFARS	K4MN	146.910	-	100	☺
FOREST CITY	K4OI	146.670	-	T114.8	
FRANKLIN	NT4K	145.490	-		
FRANKLIN	W4GHZ	147.240	+	T151.4	☺
GASTONIA	WD4LCF	145.450	-	T	
GASTONIA/CRWDR	K4GNC	146.805	-		☺
GASTONIA/SPCR MT	N4GAS	147.120	+		☺
GIBSONVILLE	WB4IKY	145.490	-	T107.2	
GOLDSBORO	KI4RK	145.330	-	100.0	☺
GOLDSBORO	K4CYP	146.850	-	T	☺
GRAHAM	K4GWH	147.375	+	T114.8	☺
GREENSBORO	W4GSO	145.150	-	100.0	☺
GREENSBORO	W4GG	145.250	-	T88.5	☺
GREENSBORO	K4GWH	146.760	-	T156.7	☺
GREENSBORO	W4BUZ	147.210	+		
GREENVILLE	WD4JPQ	145.350	-	T131.8	
GREENVL/ESTN NC	W4GDF	147.090	+		☺
GRIFTON	W4NBR	146.685	-	88.5	☺
HATTERAS ISLAND	K4OBX	145.150	-	T131.8	☺
HAW RIVER	KD4JFN	146.715	-	T107.2	☺
HENDERSONVILLE	WB4YAO	146.640	-	T91.5	☺
HENDERSONVILLE	WA4KNI	147.105	+		
HENDSVL/BERWLW	WA4KNI	145.270	-		
HENDSVL/PENIC	WA4KNI	147.255	+		
HICKORY	KF4LUC	145.490	-	T94.8	☺
HICKORY/BRT. MT	WA4DSZ	146.850	-		
HIGH PEAK MTN	K4OLC	145.210	-	94.8	☺
HIGH POINT	NC4AR	145.290	-	T88.5	☺
HIGH POINT	W4UA	147.165	+		☺
HILLSBOROUGH	WR4AGC	147.225	+		
HOLDEN BEACH	W4ZU	146.775	-	T100.0	☺
#HOPE MILLS	W4KMU	146.835	+	UNCOR	
JACKSONVILLE	KA4SQN	145.190	-		
JACKSONVILLE	WD4FVO	147.000	-		
JEFFERSON	W4YSB	147.300	+	T103.5	☺
KANNAPOLIS	N4JEX	147.300	+	T136.5	☺
KILL DEVIL HILLS	W4PCN	145.110	-	T131.8	☺
KINSTON	W4OIX	145.470	-	T88.5	☺
LAURINBURG	KI4RR	146.625	-		☺
#LENOIR	N4NIN	147.195	+	UNCOR	
LENOIR/HIBRITN	KN4K	147.330	+	T141.3	☺
LEVEL CROSS	K4ITL	147.255	+	T82.5	☺
#LEXINGTON	N4LEX	145.310	-	UNCOR	☺
LEXINGTON	W4PAR	146.910	-	T107.2	☺
LILLINGTON	K4ITL	147.105	+	T82.5	☺
LINCOLNTON	NC4LC	147.015	+	141.3	☺
LOCUST	WA4CHZ	147.390	+	T100.0	
#LUMBERTON	W4LBT	145.150	-	UNCOR	☺
LUMBERTON	W4NHV	147.045	+		☺
LUMBERTON	KD4PBK	147.165	+	T88.5	☺
LUMBERTON	W4PET	147.360	+		☺
MACO	KB4BR	147.060	+	T	☺
MADISON	WA4IXW	147.345	+	T103.5	☺
MARION	WD4PVE	146.985	-	118.8	
MILLERS CREEK	N4GGN	146.715	-	94.8	☺
MONROE/UCARS	NC4UC	145.390	-	T94.8	☺
MORGANTON	KC4QPR	146.745	-	94.8	☺
MORGANTON	K4VLY	147.150	+		
MOUNT AIRY	N4VRD	145.330	-	T100.0	☺
MT MITCHELL	WA4BVW	145.190	-		☺
MT. AIRY	N4VL	145.130	-	T103.5	☺
#MURPHY/STALCUP	N4WCO	146.865	+	UNCOR	☺
N. WILKESBORO	W4HF	145.370	-	T94.8	☺
NASHVILLE	WA4WPD	145.290	-	T107.2	☺
NEW BERN	W4EWN	146.610	-	T100.0	☺
#NEWPORT	K4GRW	145.450	-	UNCOR	☺
NEWTON	K4CCR	147.075	+	T88.5	☺
ORIENTAL	W4SLH	147.210	+	T151.4	☺
PITTSBORO	KD4JFN	147.075	+	T146.2	☺
RAEFORD	KU4W	145.430	-	100.0	☺
RALEIGH	W4RNC	145.130	-	T82.5	☺
RALEIGH	K4GWH	145.190	-	T156.7	☺
RALEIGH	WB4TQD	145.390	-	T82.5	☺
RALEIGH	W4BWC	145.490	-	T82.5	☺
RALEIGH	WB4TOP	146.610	-	T131.8	☺
RALEIGH	W4DW	146.640	-		☺
RALEIGH	W4BWC	146.730	-	T82.5	☺
#RALEIGH	KD4RAA	146.775	-	UNCOR	☺
RALEIGH	WB4TQD	146.880	-		☺
RALEIGH	W4BAD	147.015	+	T88.5	
RALEIGH	KO4CW	147.195	+	T88.5	
RALEIGH/BENSON	AK4H	147.270	+		☺
#RED SPRINGS	W4MZP	147.300	+	UNCOR	☺
REIDSVILLE	N4IV	146.850	-	T103.5	☺
ROANOKE RAPIDS	N4WFU	146.745	-	T131.8	
ROANOKE RAPIDS	KB4DJT	147.030	+		
ROANOKE RAPIDS	K4ITL	147.150	+	T82.5	☺
ROBBINSVILLE	N4GSM	145.110	-	T151.4	☺
ROCKINGHAM	K4RNC	146.955	-		☺
ROCKY MOUNT	W4DCG	146.805	-	T118.8	☺
ROCKY MOUNT	WN4Z	147.120	+	T131.8	☺
ROLESVILLE	KF4HFQ	147.315	+	T88.5	
ROSEBORO	K4ITL	145.310	-		☺
SALISBURY	W4EXU	146.730	-	T94.8	☺
SALISBURY	KG4WAD	146.775	-	T94.8	☺
SAURATOWN MT	W4NC	145.470	-	T100.0	☺
SAURATOWN MT	KG4ASL	146.790	-	T107.2	☺
SAURATOWN MT	K4MPJ	147.315	+	T100.0	☺
SHALLOTTE	K4PPD	145.370	-	118.8	☺
SHALLOTTE	K4PPD	147.315	+	T118.8	☺
#SHALLOTTE	K4PPD	147.390	+	UNCOR	☺
SHELBY	W4NYR	146.880	-		☺
SHELBY	W4NYR	147.345	+		
SPARTA/GREEN MT	K4QFQ	145.430	-		☺
#SPRUCE PINE	KF4GUZ	146.895	+	UNCOR	☺
STAR/BISCOE	KI4DH	147.090	+	100.0	☺
STATESVILLE	W4SNC	146.685	-		☺
SWANSBORO	KB2XI	146.760	-		☺
SYLVA	KF4DTL	147.345	+	151.4	
THOMASVILLE	KF4QDS	146.610	-	T123.0	
THOMASVILLE	KB4BPV	146.835	+	T88.5	
THOMASVILLE	WW4DC	147.000	+	T88.5	☺
TRENTON	WB4TQD	145.210	-		☺
TRYON	KF4JVI	145.330	-		☺
TRYON	W4RCW	147.285	+		☺
WADESBORO	W4USH	146.835	-		
WANCHESE	W4ACY	146.940	-	T131.8	☺
WASHINGTON	WA4TEP	147.345	+		☺
WAXHAW	WA4ZRS	146.865	+	T94.8	☺
WAYNESVILLE	N4SM	147.270	+		
WAYNESVILLE	N4DTR	147.390	+		
WHITEVILLE	W4NTQ	147.210	+		☺
WILKESBORO	WB4PZA	146.820	-	94.8	☺
WILLIAMSTON	K4SER	145.410	-	T131.8	☺
WILMINGTON	N4JDW	145.170	-	T88.5	
WILMINGTON	AD4DN	146.670	-	T88.5	☺
WILMINGTON	N4ILM	146.730	-		☺
WILMINGTON	K4GMP	146.820	-	T88.5	☺
WILMINGTON	WA4US	147.135	+	T67.0	☺
WILMINGTON	AC4RC	147.180	+	T88.5	☺
WILSON	WB4THL	146.760	-	131.8	
WINSTON-SALEM	W4NC	146.640	-	T100.0	☺
YADKINVILLE	N4YSB	147.015	-		☺
YOUNGSVILLE	KD4MYE	145.110	-	88.5	☺

220 MHZ

ANDRWS/ROBINSVL	K4AIH	224.880	-		☺
ASHEVILLE	KD4CJG	224.520	-	T91.5	
ASHEVILLE	WB4PLA	224.600	-		☺
ASHVL/MT PISGAH	WA4BVW	224.260	-		☺
BANNER ELK	WA4NC	224.840	-	PROP	☺
BARIUM SPRINGS	WA4WRS	224.300	-		☺
BIG KNB/MARS HIL	KE4RQL	224.660	-	100.0	☺
#BIG PHOENIX MTN	KC4KUL	224.600	-	UNCOR	
BURNSVILLE	KD4WAR	224.740	-		
CANTON	N4DWU	224.820	-		☺
CARY	W4JYV	224.880	-	T88.5	
CHAPEL HILL	K4ITL	224.120	-	PROP	☺
CHARLOTTE	W4BFB	224.400	-		☺
CHERRY MTN	KG4JIA	224.640	-	PROP	☺
CHERRYVILLE	KC4ZTJ	224.960	-		
CLEMMONS	WB9SZL	224.700	-	T100.0	☺
DUNCAN	KM4TC	224.700	-	T88.5	
EDEN	N4IV	224.780	-	T103.5	☺
EFLAND	WA1YYN	224.660	-	T107.2	☺
GASTONIA	KC4IRA	224.620	-	T127.3	
GREENSBORO	WB4GUG	224.440	-	T107.2	
GREENSBORO	N4QVI	224.960	-		
GRIFTON	WA4DAN	224.840	-		☺
GRIMESLAND	WB4PAC	224.360	-		
HAW RIVER	KD4JFN	224.620	-	T107.2	☺
HENDERSONVILLE	N4UQS	224.960	-		
HENDSVL/BERWLW	WA4KNI	224.240	-		
HILLSBOROUGH	WR4AGC	224.260	-		
JACKSONVILLE	KA4SQN	224.320	-		
KERNERSVILLE	KF4IXK	224.820	-	T107.2	
KVILLE/HIPOINT	KE4QOX	224.240	-	T107.2	☺
LENOIR/HIBRITN	KN4K	224.160	-		☺
LOCUST	KC4FWC	224.480	-		☺
MARSHALL	KF4ZDS	224.360	-		
MT MITCHELL	WA4BVW	224.540	-		☺
PLYMOUTH	KB7BTU	224.760	-	T131.8	
RALEIGH	K4ITL	224.160	-		☺
RALEIGH	W4RNC	224.640	-		☺
ROBBINSVILLE	N4GSM	223.940	-		☺
ROCKY MOUNT	NF4C	224.220	-		☺
ROCKY MOUNT	KR4AA	224.580	-		☺
SALISBURY	W4EXU	224.760	-		☺
SHELBY	W4NYR	224.060	-		
SHELBY	KC4ZTJ	224.460	-		
SOPHIS/RANDLEMAN	WR4BEG	224.140	-	T	☺
THOMASVILLE	WW4DC	224.340	-	T88.5	☺
TRENTON	WA4DAN	224.720	-		☺
WILMINGTON	WA4US	224.200	-	T	☺
WILMINGTON	AD4DN	224.500	-	T88.5	☺
WILMINGTON	WB4KPF	224.680	-		

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

N. CAROLINA REPEATERS CONTINUE

440 MHZ

#AHOSKIE	WB4YNF	444.200	+	UNCOR	☺
AIR BELLOWS GAP	WA4PXV	443.575	+		
ANDRWS/ROBINSVL	WD4NWV	442.600	+	T151.4	
ANDRWS/ROBINSVL	K4AIH	443.650	+		☺
ANDSN MT/DENVER	K4CCR	444.075	+	88.5	☺
APEX	KD4PBS	442.075	+	T114.8	☺
ARCHDALE	KI4ASR	442.775	+	PROP	
ASHEBORO	KE4QAP	444.975	+		
ASHEVILLE	WA4TOG	442.550	+		☺
ASHEVILLE	KD4GEU	442.650	+		
ASHEVILLE	KF4TLA	443.275	+	T103.5	☺
AUBURN	N4ZCM	442.275	+		
BENSON	K4JDR	444.550	+	PROP	☺
#BLADENBORO	KC4FWC	444.725	+	UNCOR	☺
#BLADENBORO	KC4FWC	444.725	+	UNCOR	☺
BOONE/RICH MT	KC4FWC	444.575	+	T77.0	☺
BREVARD	AG4AZ	442.850	+		☺
BRYSON CITY	N0SU	443.400	+	T151.4	☺
BUIES CREEK	NC4BJ	444.275	+	PROP	☺
BURGAW	N4JDW	444.075	±	PROP	
BURLINGTON	K4EG	443.600	+	T123.0	
BURNSVILLE	KD4WAR	443.650	+		
CANTON	KE4UIU	443.475	+	T156.7	
CARY	K4JDR	444.775	+	T100.0	☺
CASTALIA	N4JEH	444.975	+	T107.2	☺
CHAPEL HILL	W4UNC	442.150	+	T131.8	☺
CHAPEL HILL	W4UNC	443.475	+	T131.8	☺
CHARLOTTE	N4IBM	442.650	+	88.5	☺
CHARLOTTE	KD4OWV	443.950	+		
CHARLOTTE	K4KAY	444.350	+	T118.8	☺
CHARLOTTE	W4CQ	444.450	+		☺
CHARLOTTE	W4BFB	444.600	+	T100.0	☺
CHARLOTTE	W4WBT	444.675	+		
CHARLOTTE	W4CQ	444.850	+		☺
CHARLOTTE	WA1WXL	444.950	+	T136.5	☺
CHERRY MTN	KG4JIA	442.500	+	94.8	☺
CHINA GROVE	N4JEX	443.250	+	T136.5	☺
CLAREMONT	WB4SRV	443.775	+	T118.8	
#CLAYTON	K4JDR	444.150	+	UNCOR	☺
COLUMBIA	KB4TOH	443.300	+	131.8	☺
COLUMBUS	K4JLA	442.075	+	T103.5	☺
CONCORD	N2QJI	442.525	+	PROP	☺
CRAB CREEK TWP	KB4PQA	443.125	+		
CROWDER'S MT	KD4FRP	443.675	+		
DALLAS CHLT	KC4YOZ	443.850	+	T100.0	
DURHAM	WR4AGC	444.100	+		
DURHAM	W4BAD	444.575	+	T88.5	
DURHAM	KB4WGA	444.925	+	T100.0	☺
EDEN/REIDSVILLE	KI4CGV	443.975	+		☺
EFLAND	WA1YYN	442.050	+	T107.2	☺
ELIZABETH CITY	WA4VTX	444.300	+	131.8	☺
ELM CITY	K2IMO	442.325	+	PROP	
FAYETTEVILLE	K4MN	444.400	+	100HZ	☺
FOREST CITY	AI4M	443.300	+	T114.8	☺
FOUNTAIN	N4HAJ	444.425	+	T88.5	☺
FRANKLIN	N4DTR	444.375	+	T131.8	
GASTONIA	KC4YOT	442.700	+	PROP	☺
GASTONIA	KG4LWG	442.775	+	T123.0	
GASTONIA	NC4GC	444.750	+	T	☺
GASTONIA/CRWDR	KC4ZTI	443.750	+		
GASTONIA/CRWDR	AG4EI	444.150	+	T	☺
GASTONIA/SPCR MT	N4GAS	444.550	+		☺
GIBSONVILLE	WB4IKY	443.025	+	T107.2	
GIBSONVILLE	WB4IKY	444.350	+	T107.2	
GOLDSBORO	KI4RK	443.000	+	T100.0	☺
GRAHAM	K4GWH	443.725	+	T156.7	☺
GRANTSBORO	KR4LO	444.350	+		
GREENSBORO	KG4BTN	441.975	+	PROP	
GREENSBORO	W4GSO	442.875	+	T88.5	☺
GREENSBORO	KG4BTN	443.650	+	88.5	
GREENSBORO	K4GWH	444.225	+	T146.2	☺
GREENSBORO	KG4BTN	444.475	+	107.2	
GREENSBORO	KF4DWV	444.950	+	T100.0	☺
GREENVILLE	WB4PMQ	444.800	+	T131.8	☺
HATTERAS ISLAND	K4OBX	444.925	+	T131.8	☺
HAW RIVER	KD4JFN	443.775	+	T107.2	☺
HENDERSON	KG4IWI	442.125	+	T88.5	☺
HENDERSON	KB4WGA	444.375	+	T100.0	☺
HENDERSONVILLE	WA4TOG	442.450	+		☺
HENDSVL/BERWLW	WA4KNI	444.250	+		
HICKORY	WA4PXV	442.375	+		
HICKORY	K4JEQ	444.000	+		
HICKORY	KF4LUC	444.800	+	T94.8	☺
HIGH POINT	W4UA	443.900	+		☺
HIGH POINT	KD4JFN	444.025	+	T107.2	☺
HILLSBOROUGH	WA1YYN	443.950	+	PROP	☺
HILLSBOROUGH	WR4AGC	444.450	+	T100.0	
HOLLY SPRINGS	KF4AUF	444.325	+	T100.0	☺
HUNTERSVILLE	W8EMX	443.225	+	PROP	☺
#JACKSONVILLE	KE4JDP	444.675	+	UNCOR	
KANNAPOLIS	N4JEX	443.350	+	T136.5	☺
KERNERSVILLE	KF4DAR	442.975	+	T107.2	
KERNERSVILLE	KF4IXK	443.325	+	T131.8	
#KING/SAURATOWN	KE4QEA	444.200	+	UNCOR	☺
KINSTON	N4HAJ	442.000	+	PROP	☺
KINSTON	N4HAJ	444.575	+	T88.5	☺
KVILLE/H POINT	KE4QOX	443.700	+	T103.5	☺
LAKE GASTON	KF5TU	442.350	+	T100.HZ	☺
#LAURINBURG	KC4FWC	443.825	+	UNCOR	☺
LENOIR/CAJAH MT	N4EUX	443.525	+		☺
LEVEL CROSS	K4ITL	442.825	+	T82.5	☺
LEXINGTON	KO0NTZ	442.275	+	T146.2	☺
#LEXINGTON	K4AE	442.425	+	UNCOR	☺
LEXINGTON	K4CH	442.925	+	T107.2	☺
LEXINGTON	W4PAR	444.500	+	T	☺
LILLINGTON	W4FBC	444.175	+	PROP	
LINCOLNTON	WA4YGD	442.350	+		☺
LINVILLE	KC4UBR	442.175	+	T136.5	☺
LOCUST	WA4LBT	443.700	+		
LOUISBURG	N4EWS	444.250	+	88.5	
#LOUISBURG	KD4RAA	444.875	+	UNCOR	☺
LUMBERTON	WB4DVN	444.625	+		
LUMBERTON	KD4BGD	444.700	+	T114.8	☺
MCLEANSVILLE	WB4GUG	444.125	+	T	
MIDDLESEX	NE4J	444.650	+	T179.9	
MONROE	W4ZO	444.300	+	T100.0	
MONROE	NC4UC	444.425	+	T94.8	☺
MORAVIAN FALLS	KA2NAX	442.675	+	T88.5	☺
MORG/WALKER TOP	KC4QPR	442.300	+	94.8	☺
MORGANTON	KC4QZL	443.800	+	T	
MOUNT AIRY	N4XRY	444.925	+		
MT AIRY/FSH PK	KF4UY	444.825	+	T100.0	☺
MT MITCHELL	N4DWU	443.600	+	114.8	☺
NASHVILLE	N4JEH	443.700	+	T107.2	☺
NEW BERN	W4EWN	444.900	+	T100.0	☺
NEWEL	WT4IX	442.125	+	PROP	☺
NEWPORT	KD4RAA	444.825	+	T100.0	☺
NEWPORT CCARS	W4YMI	444.975	+		☺
NEWTON	KE4KIV	442.625	+		
OLD FORT	KR4EX	444.775	+		
OXFORD	NO4EL	444.600	+		
PINEY KNOB	KC4KPW	443.875	+	T103.5	
PITTSBORO	K1BUD	442.550	+	T	☺
PITTSBORO	KD4JFN	444.750	+	T146.2	☺
POLKVILLE	KC4ZTJ	444.975	+		
RALEIGH	N4LMR	442.450	+		
RALEIGH	W4MLU	442.575	+	T	☺
RALEIGH	W4ATC	442.675	+	100.0	☺
RALEIGH	WA4NNA	443.125	+		☺
RALEIGH	N4ZCM	443.225	+	T	
RALEIGH	W1IFL	443.375	+	T	
RALEIGH	W4RNC	444.525	+	T82.5	☺
RALEIGH	KD4RAA	444.675	+	T100.0	
RALEIGH	K4GWH	444.825	+	T146.2	☺
RALEIGH	W4BAD	444.850	+	T100.0	
REIDSVILLE	K4YEC	444.800	+	T107.2	☺
RES. TRIANGLE PK	WA1YYN	443.425	+	T156.7	☺
RES. TRIANGLE PK	W4EUS	443.625	+		
ROANOKE RAPIDS	KA4BQM	444.550	+	T192.8	
ROCKY MOUNT	N4JEH	444.700	+	T107.2	☺
ROCKY MOUNT	WN4Z	444.850	+	T131.8	☺
ROLESVILLE	KF4HFQ	444.950	+	T88.5	
ROUGEMNT/RED MT	WA4WTX	443.275	+	100.0	
ROXBORO	KE4GYN	442.175	+	T156.7	☺
SALISBURY	W4HG	443.150	+	T136.5	
SALISBURY	KJ4HF	444.650	+	T88.5	☺
SAURATOWN MT	KE4QOX	443.100	+	T88.5	☺
SAURATOWN MTN	W1WBT	443.050	+	T136.5	☺
SCOTLAND NECK	WA4TCC	444.075	+	PROP	
SELMA	KI4RK	444.000	+		☺
SHELBY	W4NYR	444.325	+		☺
SOPHIA/RANDLEMAN	WR4BEG	443.075	+		☺
SOUTHERN PINES	KD4QMS	444.800	+	T118.8	
#SPRUCE PINE	KF4GUZ	443.925	+	UNCOR	☺
#STANFIELD	KC4FWC	443.200	+	UNCOR	☺
STATESVILLE	N4VOZ	443.450	+		
STATESVILLE	AE4GA	444.700	+	T94.8	
TARBORO	N4JEH	444.500	+	T100.0	☺
TARBORO	N4NTO	444.925	+	T118.8	☺
TAYLORSVILLE	W4ERT	441.625	+	T123.0	
TAYLORSVILLE	W4ERT	442.950	+	T151.4	
THOMASVILLE	WW4DC	442.900	+	T88.5	☺
VALDESE	WA4PXV	442.600	+		
WAXHAW	WA4ZRS	444.525	+	T94.8	☺
WAYNESVILLE	N4DTR	444.450	+		
WEST JEFFERSON	AB4JJ	443.500	+	T107.2	☺
WILKESBORO	KE4DGP	442.475	+	T107.2	
WILKESBORO	KC4XE	443.550	+	94.8	☺
WILLIAMSTON	K4SER	444.250	+	T131.8	☺
WILMINGTON	N4JDW	442.075	+	T88.5	
WILMINGTON	WA4US	442.175	+		☺
WILMINGTON	WA4US	442.200	+	T	☺
WILMINGTON	K4YNY	442.500	+	T88.5	
WILMINGTON	AD4DN	443.400	+	T88.5	☺
WILMINGTON	WA4US	443.850	+		☺
WILMINGTON	WA4US	443.950	+		☺
WILMINGTON	N4JDW	444.050	+	T88.5	
WILMINGTON	WA4US	444.200	+		☺
WILMINGTON	WA4US	444.450	+		☺
WILMINGTON	WA4US	444.650	+		☺
WILMINGTON	K4GMP	444.850	+	T88.5	☺
WILSON	W4EJ	444.900	+	T179.9	☺
WINGATE	WB4U	444.875	+	T127.3	☺
WINSTON-SALEM	W4NC	444.275	+		☺
WINSTON-SALEM	KD4MMP	444.725	+	T107.2	☺
YADKINVILLE	KD4KMK	442.025	+	T100.0	☺
YADKINVILLE	N4AAD	442.800	+	T100.0	☺
YOUNGSVILLE	KC4WDI	443.200	+	T88.5	☺
ZIRCONIA	N2QJI	441.900	+	PROP	☺

900 MHZ

BEAR WALLOW	WA4TOG	927.550	=	PROP	☺
CONCORD	N2QJI	927.6625	-	PROP	☺
DURHAM	KB4WGA	927.6125	-	PROP	☺
RALEIGH	W4FAL	927.6625	-	T156.7	☺
WAYNESVILLE	N4DTR	927.6625	-	T131.8	

1270 MHZ

#CHARLOTTE	W4PPN	1253.250	+	UNCOR	
CONCORD	N2QJI	1282.525	-	PROP	☺
GASTONIA/CRWDR	AG4EI	1292.820	-		☺
WILMINGTON	AD4DN	1291.410	-	88.5	☺

SOUTH CAROLINA

10 METERS

SUMTER	W4GL	29.660	-		☺

6 METERS

BISHOPVILLE	K4NOC	53.090	-		☺
BLACKSBURG	AB4OE	53.030	-	T123.0	
CHESTER	KF4SXO	53.290	-		
GAFFNEY	KF4BJO	53.470	-	PROP	
GVL/CSR'S HEAD	KO4MZ	53.410	-	T131.8	☺
LEESVILLE	N5CWH	53.270	-	T162.2	☺
LITTLE MOUNTAIN	KN4AS	53.190	-	T156.7	
MOUNTAIN REST	KF4IWA	53.590	-		
MYR BCH/AYNOR	K4SHP	53.050	-		
ORANGEBURG	AD4U	53.210	-		☺
SUMTER	W4GL	53.770	-		☺
UNION	K4USC	53.150	-		☺
WALTERBORO	KG4BZN	53.310	-	123.0	☺

2 METERS

AIKEN	KY4S	145.170	-		☺
AIKEN	N4ADM	147.285	+		
ANDERSON	N4AW	146.970	-		☺
ANDERSON/SAS MT	N4AW	146.790	-		☺
BAMBERG	WA4DFP	145.330	-		☺
BARNWELL	KK4BQ	147.030	+	T156.7	☺
BEAUFORT	W4IAR	145.310	-		☺
BEAUFORT	KD4KOJ	146.655	-		☺
BISHOPVILLE	K4NOC	145.170	-	T123.0	☺
BISHOPVILLE	W4APE	146.925	-		
CAMDEN	KT4NZ	146.820	-	PROP	
CASSATT	KG4FAN	147.105	+	PROP	
CHARLESTON	WA4USN	145.250	-		☺
CHARLESTON	WA4USN	145.410	-		☺
CHARLESTON	K4ESG	146.760	-	T	☺
CHARLESTON	WA4USN	146.790	-		☺
CHARLESTON	KT4YW	146.835	-		☺
CHARLESTON	N7GZT	146.940	-	T	
CHARLESTON	KE4HHR	147.300	+	T103.5	☺
CHARLESTON	W4ANK	147.345	+	T	☺
CHARLESTON AREA	W4ANK	147.270	+		☺
CHERAW	W4APE	145.490	-		
CHESTER	W4CHR	145.310	-		☺
CHESTER	KF4SXO	146.625	-		
CHESTERFIELD	K4CCC	147.135	+		☺
CLEMSON UNIV	WD4EOG	145.450	-	T	
COLUMBIA	N7GZT	145.270	-	T162.2	☺
COLUMBIA	WB4NEP	146.715	-		
COLUMBIA	KF4GHC	147.330	+	156.7	☺
COLUMBIA	N4EOY	147.360	+		
DILLON/PEE DEE	W4PDE	146.745	-		☺
EASTOVER	KT4BU	147.075	+	T156.7	
ELLOREE	KC4WIF	146.610	-	T118.8	
FLORENCE	W4ULH	146.850	-		☺
FLORENCE	W4GEY	146.970	-	167.9	☺
FLORENCE	W4APE	147.195	+		
FORT JACKSON	KF4GHC	146.775	-	T156.7	☺
FORT MILL	WZ4SC	145.110	-		☺
FORT MILL	W4DXA	147.180	+		☺
GAFFNEY	WB4BLI	145.470	-	141.3	
GEORGETOWN	KI4CB	147.375	+		☺
GREELEYVILLE	KG4AQH	145.230	-		☺
GREENVILLE	W4IQQ	146.940	-	67.0	☺
GREENWOOD	W4JAK	145.130	-		☺
GREENWOOD	W4GWD	147.165	+	107.2	☺
#GREENWOOD	K4LEO	147.375	+	UNCOR	
GRNVLE/CSRS HD	W4NYK	146.610	-		☺
GRNVLE/PARIS MT	W4NYK	146.820	-		☺
HILTON HEAD	W4IAR	147.240	+	T	☺
HOLLY HILL	K4ILT	145.370	-	PROP	
#LANCASTER	W4PAX	146.700	-	UNCOR	☺
LANCASTER	AC4VT	147.240	+	T88.5	
LAURENS	KD4HLH	146.865	-	T107.2	☺
LEESVILLE	N5CWH	146.655	-	T162.2	☺
LEESVILLE	W4RRC	147.255	+	T123.0	☺
LEXINGTON	KA4FEC	147.390	+		☺
LITTLE MT.	K4AVU	147.210	+		

SYMBOLS: ☺ = Full Member SERA T=Tone Accessed (plus tone freq)
# and/or UNCOR = Uncoordinated PROP = Proposed Rptr. Under Const.

S. CAROLINA REPEATERS CONTINUE

LITTLE RIVER	KF4VGX	146.865	-		☺
MARION	KD4HTW	147.000	-	T192.8	☺
MONCKS CORNER	WD4NUN	147.150	+	T	
MOUNTAIN REST	KU4OL	147.030	-		
MYB BCH/BRKSVIL	N4LV	147.285	+		
MYR BCH/AYNOR	K4SHP	147.090	+	PROP	☺
MYR BCH/CONWAY	W4GS	145.110	-		☺
MYR BCH/CONWAY	KI4CB	145.470	-		☺
MYRTLE BEACH	W4GS	145.290	-	85.4	☺
MYRTLE BEACH	K4SHP	146.655	-	PROP	
MYRTLE BEACH	W4GS	147.120	+		☺
MYRTLE BEACH	KD4TMW	147.240	+	T85.4	☺
N. AUGUSTA	K4NAB	146.730	-	T	☺
#N. MYRTLE BEACH	N4JTH	147.030	+	UNCOR	
ORANGEBURG	KF4ATU	146.805	-	T156.7	☺
ORANGEBURG	N7GZT	146.880	-	T	
ORANGEBURG	KF4ATU	147.090	+	T156.7	☺
PAGELAND	W4APE	146.895	-		
PAULINE	K4JLA	147.090	+		☺
PICKENS	WT4F	146.700	-	107.2	☺
PICKENS	WB4YXZ	147.000	-	151.4	
PINE RIDGE	KD4BMX	146.955	-	T162.2	☺
PUMPKINTOWN	KU4ZS	145.290	-	PROP	
ROCK HILL	K4YTZ	147.030	-		
SANTEE	W4DTW	147.225	+	PROP	
SAVANNAH RIVER	W4ZKM	145.450	-	PROP	
SENECA/LONG MT	WA4JRJ	147.270	+		☺
SIMPSONVILLE	WA4UKX	145.250	-	PROP	☺
SIMPSONVILLE	WA4UKX	146.730	-	100.0	☺
SMOAKS	KG4LAP	145.210	-		
SPARTANBURG	K4JLA	147.315	+		☺
ST. GEORGE	K4ILT	147.045	+	103.5	☺
ST. GEORGE	W4DTW	147.225	+		☺
ST. MATTHEWS	AD4U	146.670	-	T156.7	☺
SUMMERTON	N4LWY	145.150	-		
SUMMERVILLE	W1GRE	146.985	-	PROP	
#SUMMERVILLE	W4HNK	147.180	+	UNCOR	☺
SUMTER	K4JR	145.130	-		☺
SUMTER	K4JR	145.430	-	T156.7	☺
SUMTER	W4GL	146.640	-		☺
SUMTER	W4GL	147.015	+	156.7	☺
SUMTER/SHAW	W4VFR	147.060	+		
UNION	K4USC	145.150	-		☺
UNION	K4USC	146.685	-		☺
WALTERBORO	KG4BZN	145.390	-		☺
WALTERBORO	KG4BZN	147.135	+		☺
WHITE HALL	WA4SJS	146.910	-	156.7	☺

220 MHZ

BISHOPVILLE	K4NOC	224.860	-		☺
COLUMBIA	N7GZT	224.160	-		
COLUMBIA	N7GZT	224.640	-		
COLUMBIA	N4EOY	224.900	-		
CROSS	KB4VFD	224.580	-		
FLORENCE	N4JJ	224.940	-		☺
FORT MILL	WZ4SC	224.800	-		☺
GAFFNEY	KG4JIA	224.500	-	T123.0	☺
GREENVILLE	W4ILY	224.200	-		☺
GRNVL/DOWNTWN	W4NYK	224.920	-	88.5	☺
LEESVILLE	N5CWH	224.560	-	T162.2	☺
LITTLE MTN	N7GZT	224.520	-		
ORANGEBURG	N7GZT	224.180	-		
ORANGEBURG	KO4BR	224.780	-		☺
PICKENS	AC4RZ	224.280	-		
PICKENS	WB4QHF	224.400	-	T131.8	☺
PICKENS/CSRS HD	WB4QHF	224.140	-	T131.8	☺
PICKENS/SASFR MT	W4IT	224.320	-		☺
SUMTER	W4GL	224.120	-		☺
SUMTER/SHAW	W4VFR	224.660	-		
WEST SPRINGS	KN4CW	224.440	-		☺

440 MHZ

ABBEVILLE	KD4HEY	442.750	+	T162.2	☺
AIKEN	AC4WW	443.400	+	T107.2	
BISHOPVILLE	K4NOC	444.500	+	123.0	☺
BLUFFTON	WA4MPZ	442.675	+	100.0	☺
CHARLESTON	N4SJW	442.150	+	PROP	☺
CHARLESTON	KF4CDR	442.775	+	T	
CHARLESTON	N4MNH	444.300	+		
CHARLESTON	KD4PBC	444.950	+	103.5	
CHERAW	AG4GW	443.000	+	PROP	
CLEMSON UNIV.	WD4EOG	444.625	+	T156.7	
CLOVER	KC4KPJ	443.725	+	127.3	
COLUMBIA	N7GZT	442.200	+	162.2	
COWPENS	KE4EAN	443.625	+	T136.5	☺
EASLEY/SAS MTN	AC4RZ	444.925	+	T103.5	
FLORENCE	W4ULH	444.000	+		☺
FORT MILL	WZ4SC	443.475	+		☺
GAFFNEY	KF4BJO	441.875	+	T123.0	
GAFFNEY	AI4M	442.000	+	114.8	☺
GEORGETOWN	KI4CB	444.925	+	T	☺
GREELEYVILLE	KG4AQH	441.525	+	PROP	☺
GREENVILLE	KB4PQA	442.250	+		
GREENWOOD	W4GWD	443.900	+	107.2	☺
GRNVLE/PARIS MT	W4IQQ	443.350	+		☺
HICKORY TAVERN	AC4RZ	443.450	+	PROP	
HOLLY HILL	K4ILT	444.825	+	PROP	
KNIGHTSVILLE	WA4USN	441.350	+		☺
LAKE MURRAY	N4UHF	444.650	+	T	☺
LAKE WYLIE	W1WBT	444.050	+	T136.5	☺
LANCASTER	KC4AC	444.100	+		
LAURENS	KD4HLH	443.175	+	T146.2	☺
LAURENS	KF4Y	443.775	+	T141.3	
LEESVILLE	N5CWH	443.500	+	162.2	☺
LEXINGTON	N4GUP	421.250	+		
LEXINGTON	KF4GHC	444.200	+	156.7	☺
LIBERTY	N4VDE	443.975	+	PROP	
LITTLE MT	NK4W	442.975	+	T162.2	
MOUNTAIN REST	AE4PZ	442.775	+	T127.3	
MT PLEASANT	W4HNK	443.800	+	123.0	☺
MT. PLEASANT	WA4USN	441.450	+		☺
MYB BCH/BRKSVIL	N4LV	444.525	+		
MYR BCH/CONWAY	W4GS	444.675	+	T85.4	☺
MYR BEACH/AYNOR	K4SHP	444.900	+	123.0	
MYRTLE BEACH	K2PJ	444.575	+	85.4	☺
NEWBERRY	WD4CWY	442.425	+	PROP	
NO. CHARLESTON	KT4YW	444.600	+		☺
NORTH AUGUSTA	KE4RAP	444.800	+	PROP	
ORANGEBURG	WM3O	444.975	+		☺
PACOLET	AG4VT	441.900	+	T100.0	☺
PICKENS	WT4F	442.125	+		☺
PICKENS/CSRS HD	WB4QHF	442.400	+	T127.3	☺
ROCK HILL	KI4D	443.100	+	PROP	
ROCK HILL	KC4KPJ	444.725	+	127.3	
SIMPSONVILLE	AA4LB	442.725	+	T100.0	
SIX MILE	WB4TWX	441.875	+	100.0	
SPARTANBURG	KU4ZS	442.175	+	PROP	
SUMMERVILLE	KC4ED	442.300	+	T	☺
SUMTER	WZ4O	421.250	+		
SUMTER	W4GL	444.150	+	123.0	☺
UNION	K4USC	442.100	+		☺
WALTERBORO	KG4BZN	444.550	+	123.0	☺

900 MHZ

PICKENS	KE4PAB	927.5125-	T100.0	

TENNESSEE

10 METERS

GALLATIN/BNA	W4CAT	29.640	-	T107.2	
GREENEVILLE	WB4NKM	29.640	-		
MEMPHIS	W4ZJM	29.620	-	T*#	
SPRINGFIELD	N8ITF	29.680	-		
TELLICO PLAINS	AJ4D	29.620	-	141.3	☺

6 METERS

CHATTANOOGA	K4VCM	53.350	-		☺
COOKEVILLE	WA4UCE	53.190	-	PROP	
DRESDEN	KG4IBW	53.130	-	T107.2	☺
ELIZABETHTON	KN4E	53.890	-	88.5	
GALLATIN	WA4BGK	53.050	-	T114.8	
GEORGETOWN	WD4OAR	53.730	-	PROP	
GREENEVILLE	N4FV	53.010	-	100.0	
GUTHRIE (TN/KY)	KA4ZKL	53.230	-		
KINGSPORT	K4GX	53.430	-	PROP	
#KNOXVILLE	WA4YON	53.250	-	UNCOR	☺
KNOXVILLE	KB4REC	53.470	-	PROP	
KNOXVILLE	N4OQJ	53.550	-	PROP	
KNOXVILLE/RACK	W4BBB	53.770	-	100.0	☺
KNXVL/ENG MT	WB4IOB	53.150	-		☺
LAFOLLETTE	K4BGW	53.170	-	PROP	
LANEVIEW	KE4OVN	53.710	-	T107.2	☺
LEXINGTON	N5YKR	53.150	-	T100.0	
MARYVILLE	KC4PDQ	53.370	-		☺
MEMPHIS	WA4KOG	53.010	-		
MEMPHIS	K4RDK	53.550	-		
MEMPHIS	W4GMM	53.930	-	T107.2	☺
MONTEAGLE MTN	NQ4Y	53.450	-	114.8	☺
MORRISTOWN	KF4FTD	53.030	-	PROP	
MORRISTOWN	KQ4E	53.230	-		
MOUNTAIN CITY	K4DHT	53.330	-	PROP	
MT. JULIET	KB4IDC	53.330	-	PROP	
NASHVILLE	WA4BGK	53.010	-	T114.8	
OAK RIDGE	WD4GYN	53.110	-		
#ROGERSVILLE	K4GX	53.750	-	UNCOR	
SEVIERVILLE	KD4PBC	53.090	-	PROP	
SPRINGFIELD	N8ITF	53.150	-		
WAVERLY	NO4Q	53.090	-		☺

2 METERS

ALAMO	K4WWV	147.135	+		☺
ANDERSON CTY	KF4BVQ	146.700	-	T100.0	☺
ARNOLD A.F.B.	KC4FV	147.195	+		☺
ATHENS	KG4FZR	145.150	-	T141.3	☺
ATHENS	WA4PNI	145.310	-	T141.3	☺
ATHENS	KG4FZR	147.060	-	141.3	☺
BENTON	K4SIR	145.450	-	T	
BLOUNTVILLE	W4CBX	147.000	+		☺
BOLIVAR	AF4O	147.045	+		☺
BRADEN	WA4KOG	145.490	-		
BRISTOL	W4UD	146.670	-		☺
BRISTOL	WD4CYZ	146.880	-		
BROWNSVILLE	WF4Q	145.430	-	T107.2	☺
BROWNSVILLE	KI4BXI	146.655	-		☺
BRSTL/HOLSTN MT	K4JP	146.760	-		
BRUCETON	WF4Q	145.170	-	T107.2	☺
CARTHAGE	N4OTT	145.190	-		☺
CENTERVILLE	AG4UW	147.090	+	T123.0	
CENTERVILLE	AG4UW	147.255	+	T123.0	
CHATTANOOGA	K4CMY	145.130	-		☺
CHATTANOOGA	W4AM	145.290	-	T118.8	☺
CHATTANOOGA	W4AM	145.390	-		☺
CHATTANOOGA	W4AM	146.610	-		☺
CHATTANOOGA	W4AM	146.790	-		☺
CLARKSVILLE	K4ORE	146.925	-	T110.9	☺
CLARKSVILLE	AC4RS	147.000	+	T167.9	☺
CLARKSVILLE	KF4L	147.390	+	T123.0	☺
CLEVELAND	W4GZX	146.925	-		
CLEVELAND	KD4NEC	147.105	+		☺
CLEVELAND	WD4DES	147.180	+	T118.8	☺
COLLEGEDALE	KA6UHV	147.000	+	T131.8	☺
COLLIERVILLE	WT4E	145.330	-	T107.2	
COLUMBIA	W4GGM	147.120	+	T127.3	☺
COOKEVILLE	KK4TD	145.110	-		☺
COOKEVILLE	WA4UCE	145.430	-		
COOKEVILLE	W4HPL	147.210	+		☺
CORNERSVILLE	WB4VXX	146.625	-	107.2	
CORNERSVILLE	KF4TNP	146.805	-	114.8	☺
CROSS PLAINS	K4BBN	147.345	+		☺
CROSSVILLE	W4EYJ	146.805	-	131.8	☺
#CROSSVILLE	W8EYU	146.865	-	UNCOR	☺
CROSSVILLE	KF4HNV	146.895	-	PROP	
CUMBERLAND CITY	WD4DBJ	145.330	-		
DANDRIDGE	WD4EGD	146.895	-		☺
DAYTON	K4PHT	147.345	+		
DAYTON/RHEA CTY	K4DPD	147.390	+		☺
#DICKSON	KF4CAU	147.375	+	UNCOR	☺
DOVER	KT4WS	145.250	-	100.0	☺
DOVER	N4VIH	145.410	-	T123.0	
DRESDEN	KB4IBW	145.150	-	107.2	
DYERSBURG	W4MV	146.745	-		
ELIZTON/HOLS MT	KF4ZQA	145.290	-	T100.0	☺
ERWIN/PINNACLE	W4NKW	145.250	-	T	☺
ERWIN/UNICOI	KF4BRS	147.165	+		☺
FAYETTEVILLE	W4BV	147.030	+		☺
FRANKLIN	W4XS	145.150	-		
GALLATIN	W4LKZ	147.240	+	T114.8	
GALLATIN	WD4BKY	147.270	+	T114.8	
GALLATIN	W4CAT	147.300	+	T114.8	
GERMANTOWN	W2GLJ	145.210	-		☺
GRAY	WM4T	145.110	-		
GREENBRIER	WQ4E	147.075	+	T107.2	☺
GREENEVILLE	W4WC	145.390	-		☺
GREENEVILLE	K4MFD	145.410	-	T173.8	☺
GREENEVILLE	N4FV	147.060	+	186.2	
GREENFIELD	KE4OVN	145.350	-	107.2	☺
GTLBG/COVE MTN	WA4KJH	146.850	-	T127.3	
HARRIMAN	KA4QYI	146.640	-	T100.0	☺
HARRIMAN	KC4WHL	146.745	-		
HENDERSON	K4TC	147.105	+	T	☺
HOLSTON MOUNT	WM4T	146.700	-	T103.5	
HOWENWALD	K4TTC	146.895	-	100.0	☺
HUNTINGDON	KB4YTM	146.835	-		
JACKSON	KF4SC	145.310	-		☺
JACKSON	WF4Q	146.775	-	T107.2	☺
JACKSON	WF4Q	147.210	+	T107.2	☺
JACKSON	WB0TMC	147.270	+		☺
JAMESTOWN	K4NLP	147.090	+	T100.0	☺
JASPER	KD4XV	145.190	-	T127.3	
JOHNSON CITY	W4ABR	146.790	-		☺
JOHNSON CITY	KE4FH	147.270	+		☺
JONESBOROUGH	WD4OBW	146.925	-		☺
KNGSPT/BAYS MT	W4TRC	146.970	-		☺
KNOXVILLE	WB4GBI	145.170	-		☺
KNOXVILLE	WA4TEM	145.330	-		☺
KNOXVILLE	KB4KIE	145.370	-		
KNOXVILLE	WB4YLC	145.430	-		☺
KNOXVILLE	WB4GBI	145.470	-		☺
KNOXVILLE	WB4GBI	146.625	-	T100.0	☺
KNOXVILLE	KC4ROG	146.910	-	T	
KNOXVILLE	WB4GBI	146.940	-		☺
#KNOXVILLE	KD4CWB	147.000	-	UNCOR	☺
KNOXVILLE	WB4GBI	147.075	+		☺
#KNOXVILLE	KD4CWB	147.195	+	UNCOR	☺
KNOXVILLE/RACK	W4BBB	145.210	-	T100.0	☺
KNOXVILLE/RACK	W4BBB	147.300	+	T100.0	☺
KNXVL/ENG MT	WB4IOB	146.730	-		☺
LAFAYETTE	KC4ECD	145.310	-	T151.4	☺
LAFOLLETTE	KA4OAK	145.130	-		
LAFOLLETTE	K4BGW	146.670	-		☺
LAFOLLETTE	KA4OAK	147.360	+		
LAKE CITY	WB4OAH	146.820	-		
LAVERNE	W4CAT	145.230	-		
LAWRENCEBURG	W4RDM	146.655	-	T	
LEBANON	W4LYR	147.105	+	T100.0	☺
LIVINGSTON	N2UP	147.045	+		☺
MANCHESTER	W4UOT	146.700	-	T114.8	☺
MARTIN	W4UTM	146.625	-	T107.2	
MARYVILLE/ALCOA	W4OLB	146.655	-		☺
MAYNARDVILLE	KB4KIE	145.230	-		
MCEWEN	NO4Q	147.225	+	114.8	☺
MCMINNVILLE	WD4MWQ	146.970	-		
MCMINVL/SHT MT	WB4LHO	145.490	-		
MCNAIRY	WF4Q	147.075	+	T107.2	☺
MEDINA	WA4RWK	146.970	-		
MEMPHIS	KF4ATY	145.130	-	T107.2	

TENNESSEE REPEATERS CONTINUE

MEMPHIS	N4ER	145.250	-	T146.2	☺
MEMPHIS	K5FE	145.410	-	T107.2	
MEMPHIS	WA4KOG	145.450	-		
MEMPHIS	WB4KQQ	146.640	-		
MEMPHIS	KE4LFZ	146.730	-	T107.2	
MEMPHIS	W4KIB	146.790	-	T107.2	
MEMPHIS	W4BS	146.820	-	T	
MEMPHIS	WA4KOG	146.850	-		
MEMPHIS	WA4KOG	146.880	-		
MEMPHIS	W4ZJM	147.000	-	T*#	
MEMPHIS	W4EM	147.030	+		☺
MEMPHIS	WA4MQQ	147.060	+		
MEMPHIS	W4GMM	147.090	+	T107.2	☺
MEMPHIS	N4WAH	147.120	+	T107.2	
MEMPHIS	WA4KOG	147.180	+		
MEMPHIS	WA4ADT	147.300	+	107.2	
MEMPHIS	W4BS	147.360	+	T107.2	
MONTEAGLE MTN	NQ4Y	145.410	-	T114.8	☺
MONTEREY	W4SRX	145.270	-	PROP	
MORGAN COUNTY	WD4ORB	147.330	+	T82.5	☺
MORRISTOWN	KQ4E	145.450	-		
MORRISTOWN	KQ4E	147.030	+		☺
MORRISTOWN	WB4OAH	147.225	+		
#MORRISTOWN	KQ4E	147.390	+	UNCOR	
MOSCOW	KF4OID	145.110	-	107.2	
MOUNTAIN CITY	KF4RBR	145.470	-	103.5	☺
#MT PLEASANT	KF4GHD	145.450	-	UNCOR	☺
MURFREESBORO	WB4LHO	145.170	-		
NASHVILLE	KC4WPS	145.130	-	T114.8	
NASHVILLE	N4ARK	145.210	-		
NASHVILLE	WR3S	145.370	-		☺
NASHVILLE	N4ARK	145.470	-		☺
NASHVILLE	WA4PCD	146.610	-	T	☺
NASHVILLE	AF4TZ	146.640	-	T114.8	☺
NASHVILLE	AF4TZ	146.670	-	T114.8	☺
NASHVILLE	WA4PCD	146.760	-	T114.8	☺
NASHVILLE	W4SQE	146.790	-	T100.0	☺
NASHVILLE	W4AY	146.850	-	T114.8	☺
NASHVILLE	WA4PCD	146.880	-	T	☺
#NASHVILLE	NT4L	146.955	-	UNCOR	
NASHVILLE	KC4PRD	146.985	-		
NASHVILLE	AF4TZ	147.015	+	T	☺
NASHVILLE	K4AYN	147.045	+		
NASHVILLE	K4ZGA	147.180	+	T114.8	
NASHVILLE	AF4TZ	147.360	+	T	☺
NASHVILLE WEST	WA4PCD	147.150	+	T114.8	☺
NASHVL/FAIRVIEW	N4ARK	145.110	-	151.4	☺
NEWBERN	N4ZKR	145.190	-	T100.0	☺
NOLENSVILLE	WD4JYD	145.350	-	114.8	
OAK RIDGE	W4SKH	146.880	-		☺
OAK RIDGE	W4SKH	146.970	-		☺
OAK RIDGE	K4EAJ	147.120	+	T82.5	☺
OAK RIDGE	K4EAJ	147.150	+	T82.5	☺
OAKFIELD	WA4BJY	147.390	+	T	
OAKLAND	WA4KOG	146.940	-		
ONEIDA	KB4PNG	145.350	-	PROP	
#ONEIDA	KB4PNG	146.820	-	UNCOR	
PARIS	KC4YLL	147.165	+	T114.8	
PARIS	K4KLX	147.360	+		
PETROS/FRZ HD MT	KJ4SI	147.255	+		☺
PIGEON FORGE	KD4CLA	145.270	-	T100.0	
PIKEVILLE	KF4JPT	147.285	+		
PULASKI	WD4RBJ	147.330	+	100.0	☺
PULASKI/MUSIC MT	W4JVO	146.775	-		
PURYEAR	WA4CEX	147.165	+		
RAMER	WB4MMI	146.700	-	T162.2	
RCKWD/MT ROSVLT	KE4RX	147.015	+		☺
#RICHLAND	KF4TNP	147.390	+	UNCOR	☺
RIDGETOP	K4DXC	145.290	-	114.8	☺
RIPLEY	KE4NTL	145.230	-	T100.0	☺
ROGERSVILLE	KD4HZN	147.315	+	T114.8	☺
SALTILLO	KB4JUB	146.715	-		
SARDIS	AF4OQ	147.195	+	T94.8	
SELMER	WB4MMI	146.805	-	T107.2	
SHELBYVILLE	N4VFB	147.060	+		☺
SHILOH	WF4Q	145.290	-	T107.2	☺
SHORT MTN	W4YXA	146.910	-		☺
SPARTA	N4ARK	147.315	+	T123.0	☺
SPARTA/WHITE	KR4BT	147.165	+	T123.0	☺
TELLICO PLAINS	KE4VQM	147.315	+	T141.3	☺
TRENTON	KN4KP	146.865	-		
UNION CITY	WA4YGM	146.700	-		
UNION CITY	WF4Q	147.015	+	T107.2	☺
WALLAND	KF4ARH	146.685	-	T88.5	☺
WARTBURG	AA4YQ	146.745	-		☺
WATERTOWN	K4EHL	146.730	-	T100.0	☺
WATERTOWN	W4LYR	146.835	-	T100.0	☺
WINCHESTER	W4UOT	146.820	-		☺

220 MHZ

BLOUNTVILLE	W4CBX	224.200	-		☺
CHATTANOOGA	K4VCM	224.780	-		☺
CLARKESVILLE	N4PJX	224.420	-	123.0	
CLEVELAND	KK4US	224.320	-		
CLEVELAND	W4RRG	224.920	-		☺
COLLIERVILLE	KB4YGI	224.400	-		
ERWIN	KB8FPK	224.180	-		☺
GALLATIN	W4CAT	223.980	-	107.2	
GALLATIN	KD4VUW	224.700	-		
GATLINBURG	W4UWH	224.620	-		☺
GREENBRIAR	WQ4E	224.800	-		☺
GREENBRIER	WQ4E	224.760	-		☺
GREENEVILLE	K4MFD	224.720	-	T173.8	☺
GREENEVILLE	W4WC	224.900	-	T100.0	☺
GREENEVILLE	WB4NKM	224.940	-		
HERMITAGE	WB4SJV	223.900	-		
JC/BUFFALO MT	KE4FH	224.780	-		☺
JOYNER	KC4WGH	224.840	-	T88.5	☺
KNOXVILLE	WB4GBI	224.340	-		☺
KNOXVILLE	N4OQJ	224.380	-	100.0	
KNOXVILLE	N4KFI	224.580	-	T103.5	
KNOXVILLE	K4PCK	224.760	-		☺
KNOXVILLE/RACK	W4BBB	224.500	-	T100.0	☺
KNXVL/CROSS MT	KB4FZK	224.220	-	T100.0	
LAFOLLETTE	KA4OAK	224.280	-		
LAVERGNE	WR3S	224.360	-		☺
LEWISBURG	KF4TNP	224.100	-		☺
MEMPHIS	W4ZJM	223.940	-	T*#	
MEMPHIS	W4BS	224.420	-		
MEMPHIS	WA4KOG	224.780	-		
MORRISTOWN	N4RBB	224.400	-		
MORRISTOWN	KC4RGQ	224.640	-		
MURFREESBORO	KD4TZZ	224.600	-	123.0	☺
NASHVILLE	WR3S	224.160	-		
#NASHVILLE	KC4TFQ	224.440	-	UNCOR	
NASHVILLE	WR3S	224.460	-		
NASHVILLE	K4ZGA	224.480	-		
NASHVILLE	WR3S	224.660	-		
NASHVILLE	N4PYI	224.740	-	T100.0	☺
NASHVILLE	KC4PRD	224.840	-		
NASHVILLE	WA4PCD	224.940	-	T	☺
NEWPORT	AC4JF	224.560	-	T100.0	☺
ONEIDA	KB4PNG	224.140	-		
ROGERSVILLE	KD4HZN	224.480	-		☺
S. PITTSBURG	WR3S	224.760	-		
SE NASHVILLE	WR3S	224.960	-		
SEVIERVILLE	N2FUV	224.440	-	T	
SEVIERVILLE	KD4IBW	224.700	-	T100.0	
SEVIERVILLE	KD4IBW	224.800	-		
SHORT MTN.	N4PYI	224.260	-	T114.8	☺
SMITHVILLE	WR3S	223.960	-		☺
SPRINGFIELD	KO4BN	224.220	-		
SPRINGFIELD	N8ITF	224.540	-		
SWEETWATER	WD9JGI	224.900	-	T127.3	

440 MHZ

ALAMO	K4WWV	443.750	+		☺
ALGOOD	N2BR	444.425	+	T88.5	☺
ARLINGTON	N4GMT	442.775	+	107.2	
BARTLETT	K4VVM	443.700	+	T107.2	
BARTLETT	WA4PAJ	444.250	+		
BIG SANDY	W4TLB	443.600	+	114.8	☺
BLUFF CITY	KE4CCB	444.500	+	T77.0	
BRICK CHURCH	KF4TNP	443.100	+	T167.9	☺
CASTALIAN SPRING	KE4SWV	442.750	+	PROP	☺
CENTERVILLE	AG4VW	443.700	+	PROP	
CENTERVILLE	AG4UW	444.700	+	T107.2	
CHAT/MNTLAKE MT	KD4UWA	444.875	+	T156.7	☺
CHAT/WALDEN	AF4ZJ	442.425	+		
CHATT/HIXSON	N4WT	442.900	+		☺
CHATTANOOGA	WJ9J	442.025	+	T	☺
CHATTANOOGA	WJ9J	442.150	+		☺
CHATTANOOGA	KT4OL	443.125	+	PROP	
CHATTANOOGA	KT4OL	443.125	+	PROP	
CHATTANOOGA	WB4LRD	443.550	+		
CHATTANOOGA	KD4HII	443.900	+	T	
CHATTANOOGA	W4AM	444.100	+		☺
CHATTANOOGA	KE4LQY	444.150	+		☺
CHATTANOOGA	KD4HII	444.200	+	T	
CLARKSVILLE	KA1FFO	442.900	+	T110.9	
CLARKSVILLE	WA4BZU	444.325	+	T107.2	☺
CLEVELAND	WD4DES	442.250	+	T118.8	☺
CLEVELAND	KD4NED	442.450	+	PROP	
CLEVELAND	W4RRG	442.675	+	T100.0	
CLEVELAND	W4GZX	444.275	+		
COLLEGEDALE	KA6UHV	443.575	+	T131.8	☺
COLLIERVILLE	KA7UEC	443.300	+	T107.2	☺
COLLIERVILLE	KA7UEC	443.625	+	T107.2	☺
COLLIERVILLE	WT4E	444.625	+	T107.2	
COLUMBIA	W4RDM	442.725	+		
COLUMBIA	WA4AKM	444.925	+	T107.2	☺
CONCORD	KA4BNI	442.675	+	T107.2	☺
COOKEVILLE	WA4UCE	442.300	+	107.2	
COOKEVILLE	K4DAV	444.500	+	PROP	
COOKEVILLE	KK4TD	444.550	+	T107.2	☺
COOKEVILLE	WA4PPL	444.600	+	T107.2	
CORDOVA	WA5KUB	444.775	+	T100.0	
CROSSVILLE	WO4U	443.875	+	T88.5	☺
CROSSVILLE	W4EYJ	444.950	+	T118.8	☺
CUMBERLAND FU	KG4CEO	442.375	+	T107.2	
DAYTON	KJ4BJ	442.075	+		☺
DEASON	WA4AWI	443.350	+	T107.2	
DECATUR	KE4MBR	442.725	+	PROP	
DOVER	N4VIH	444.925	+		
DRESDEN	KA4BNI	442.150	+	T107.2	☺
ELIZABETHTON	KN4E	442.750	+	88.5	
ETOWAH	KF4CFO	442.275	+	141.3	☺
EVA	AD4QG	443.625	+		
FRANKLIN	N4ULM	443.850	+		
FRANKLIN	WC4EOC	444.025	+	PROP	
FRANKLIN	WA4AKM	444.725	+	T107.2	☺
GALLATIN	WD4BKY	444.000	+		
GALLATIN	WD4BKY	444.350	+	T114.8	
GALLATIN	W4CAT	444.450	+	T107.2	
GALLATIN	WA4AKM	444.775	+	T107.2	☺
GATLBG/COVE MT	WA4KJH	443.300	+	T127.3	
GATLINBURG	KD4PBC	443.150	+	PROP	
GERMANTOWN	W2GLJ	444.175	+		
GOODLETTSVILLE	KC4PRD	443.125	+	107.2	
GRAY	WM4T	442.200	+	T100.0	
GREENBRIER	WQ4E	444.250	+		
GREENEVILLE	W4WC	443.200	+	100.0	
GREENEVILLE	K4MFD	444.200	+	T173.8	☺
GREENEVILLE	WB4NKM	444.650	+	T100.0	
GREENEVILLE	K4GX	444.950	+	PROP	
GREENVILLE	N4FV	442.700	+	T	
HARRIMAN	KC4WHL	442.875	+	T136.5	
HENDERSON	KE4PFW	442.275	+		
HENDERSON	KU4RT	442.575	+		
HENDERSON	K4TC	444.750	+	T	☺
HICKORY VALLEY	KA4JXT	443.125	+	107.2	☺
HIXSON	KF4VWJ	444.750	+	PROP	
HOHENWALD	K4TTC	442.000	+		☺
HOHENWALD	WB4NNX	444.850	+	T100.0	☺
HORNBEAK	KA4BNI	442.400	+	T107.2	☺
HUNTINGDON	KB4YTM	444.375	+		
JACKSON	KA4BNI	442.425	+	T107.2	☺
JACKSON	KE4CES	442.900	+	T114.8	☺
JACKSON	KI4BMD	443.825	+	PROP	
JACKSON	KI4BMD	443.825	+	T114.8	
JACKSON	WB0TMC	444.725	+	T107.2	☺
JAMESTOWN	KC4MJN	443.625	+	T100.0	
JASPER	KD4XV	442.050	+	T127.3	
JEFFERSON CITY	KD4TUD	444.625	+	T	
#JOHNSON CITY	WB4SQC	442.050	+	UNCOR	☺
JOHNSON CITY	KE4FH	444.100	+		☺
JOHNSON CITY/BUF	WD4ATV	421.250	+		☺
KINGSTON	K4CRS	444.025	+		☺
KNOXVILLE	WB4HAP	442.500	+	T103.5	☺
KNOXVILLE	N4UAG	443.025	+		
KNOXVILLE	KA4AZQ	443.075	+	PROP	
KNOXVILLE	KD4CWB	443.500	+	T	
KNOXVILLE	KA4AZQ	443.800	+	T100.0	
KNOXVILLE	KD4OBX	443.950	+		
KNOXVILLE	KD4CWB	444.000	+	PROP	☺
KNOXVILLE	KC4NNN	444.175	+	T	
KNOXVILLE	W4NCS	444.225	+	100.0	☺
KNOXVILLE	WB4GBI	444.300	+		☺
KNOXVILLE	KB4KSL	444.325	+		
KNOXVILLE	KC4NNN	444.425	+	T	
KNOXVILLE	KD4IBW	444.525	+	T100.0	
KNOXVILLE	KD4TZD	444.925	+		
KNOXVILLE/RACK	W4BBB	444.575	+	T100.0	☺
LAFAYETTE	KC4ECD	444.125	+	T107.2	☺
LAFOLLETTE	KB4OTK	443.700	+		☺
LAKE CITY	WD4LUR	442.800	+	T100.0	☺
LANEVIEW	KE4OVN	443.850	+	T107.2	☺
LAVERGNE	WR3S	443.975	+	T	
LEBANON	KW4LS	443.000	+	PROP	
LEBANON	WA4AWI	443.275	+	T107.2	
LEBANON	W4LYR	443.575	+	T100.0	☺
LEBANON	WA4AXH	444.275	+	T	
LENOIR CITY	KB9EBA	442.950	+	PROP	
LEWISBURG	KF4TNP	442.100	+	107.2	☺
LEXINGTON	KA4BNI	442.075	+	T107.2	☺
LEXINGTON	N5YKR	442.925	+	123.0	
LORETTO	KF4OCK	442.875	+	203.5	
MADISONVILLE	KG4FZS	442.100	+	PROP	☺
MARYVILLE	K4BTL	442.000	+		
MARYVILLE	KC4PDQ	444.075	+	100.0	☺
MARYVILLE	KF4VDX	444.700	+	T127.3	
MARYVILLE	KE4FGW	444.825	+	T100.0	
MCEWEN	KE4KNZ	443.925	+	T107.2	☺
MCKENZIE	KD4KPV	443.875	+		
MCMINNVILLE	WD4MWQ	444.850	+	T	
MCNAIRY	WF4Q	444.550	+	T107.2	☺
MEDINA	WA4BJY	442.050	+		
MEMPHIS	W4GMM	442.175	+	T107.2	☺
MEMPHIS	NU5O	442.575	+	77.0	☺
MEMPHIS	WB4EPG	442.625	+		
MEMPHIS	WF4G	442.825	+		
MEMPHIS	W4ZJM	443.000	+	T*#	
MEMPHIS	KA4JXT	443.100	+	T107.2	☺
MEMPHIS	KA4JXT	443.125	+	T	☺
MEMPHIS	W4BS	443.200	+	T107.2	
MEMPHIS	WA4QWW	443.400	+		
MEMPHIS	N4ER	443.950	+	T	☺
MEMPHIS	K4RDK	444.025	+		
MEMPHIS	KF4ATY	444.075	+	107.2	
MEMPHIS	KA4JXT	444.100	+	T	☺
MEMPHIS	KA4JXT	444.125	+	T	☺
MEMPHIS	WA4KOG	444.400	+		
MEMPHIS	N4WAH	444.500	+	T	
MEMPHIS	K0JXI	444.800	+		
MEMPHIS	K5FE	444.825	+	107.2	

SYMBOLS: ☺ = Full Member SERA T=Tone Accessed (plus tone freq)
# and/or UNCOR = Uncoordinated PROP = Proposed Rptr. Under Const.

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue!

TENNESSEE REPEATERS CONTINUE

MEMPHIS	K7AG	444.850	+	T107.2	
MEMPHIS	WB4NNE	444.950	+		
MILAN	WD4PAX	442.100	+		☺
MONTEAGLE MT.	NQ4Y	441.250	+		☺
#MORRISTOWN	KD4LP	444.800	+	UNCOR	
MORRISTOWN	KQ4E	444.975	+	T	
MOUNTAIN CITY	K4DHT	443.925	+	T103.5	☺
MT JULIET	N4PYI	444.400	+	T	☺
MT JULIET	N4PYI	444.750	+	T156.7	☺
MT PLEASANT	KG4GCZ	443.175	+	107.2	
MURFREESBORO	KD4TZZ	441.875	+	107.2	☺
NASHVILLE	K1YJ	442.500	+	T107.2	☺
NASHVILLE	KE4PJW	443.450	+	PROP	
NASHVILLE	W1ARN	443.725	+	T107.2	
NASHVILLE	KG4NRC	443.800	+	T123.0	
NASHVILLE	N4PYI	444.050	+	T107.2	☺
NASHVILLE	AF4TZ	444.150	+	T107.2	☺
NASHVILLE	N4ARK	444.200	+	T	☺
NASHVILLE	N4ARK	444.225	+	T114.8	☺
NASHVILLE	WA4BZU	444.300	+	T107.2	☺
NASHVILLE	WA4BGK	444.525	+	T107.2	
NASHVILLE	WA4PCD	444.550	+		☺
NASHVILLE	WA4WCK	444.575	+	T	☺
NASHVILLE	WA4TOA	444.625	+	T107.2	☺
NASHVILLE	WA4PCD	444.675	+	T	☺
NASHVILLE	N4PYI	444.800	+	T110.9	☺
NASHVILLE	WA4AKM	444.875	+	T107.2	☺
NASHVILLE	WA4AKM	444.975	+	T107.2	☺
NEWBERN	N4ZKR	444.475	+	T107.2	☺
NO CITY LISTED	WC4EOC	443.875	+	PROP	
NOLENSVILLE	WA4AXH	443.650	+	T	
NUNNELY	KG4UHH	444.075	+	100.0	
OAK RIDGE	K4EAJ	444.400	+	T82.5	☺
OAKFIELD	WA4BJY	442.200	+	T	
ONEIDA	KT4PN	442.825	+		
PALMER	N4ZKR	444.700	+	T107.2	☺
PARIS	KC4YLL	442.950	+	123.0	
PARIS	AD4LR	443.675	+		
PIGEON FORGE	KD4CLA	444.350	+	T156.7	
PROSPECT	WA4AUX	444.600	+	T118.8	
PULASKI	WD4RBJ	442.150	+	118.8	☺
RAMER	WB4MMI	444.900	+	T	
RCKWOOD/OZONE	WJ9J	442.225	+		☺
ROCKWOOD	KA4WJS	443.975	+		
ROGERSVILLE	K4GX	443.350	+	T	
SELMER	KA4BNI	442.800	+	T107.2	☺
SEVIERVILLE	KD4IBW	443.675	+	T100.0	
SEVIERVILLE	N4CKB	444.725	+	T123.0	☺
SHELBYVILLE	WA4PZN	442.700	+	T	
SHELBYVILLE	KC4KRM	443.825	+		
SHRT MT/MURFREB	W4CAT	444.650	+	T107.2	
SMITHVILLE	N4PYI	444.825	+	T107.2	☺
SODDY DAISY	WJ9J	444.450	+		☺
SPARTA	KR4BT	444.375	+	123.0	☺
SPENCER	KA4MHJ	443.775	+	123.0	☺
SPRINGFIELD	N8ITF	442.600	+		
SPRINGFIELD	N8ITF	444.950	+	100.0	
SUMMITVILLE	N4ZKR	444.475	+	T107.2	☺
SWEETWATER	KG4KIJ	443.325	+	PROP	
SWEETWATER	KG4KIJ	443.725	+	T	☺
TELLICO PLAINS	K4EZK	442.550	+	141.3	☺
TRI-CITIES	KD4PBC	443.150	+	PROP	
WATERTOWN	W4LYR	444.900	+	T100.0	☺
WAVERLY	NO4Q	442.225	+	110.9	☺
WHITE HOUSE	W4KOC	443.900	+	T107.2	☺
WHITE OAK MT	WD4OAR	442.925	+	100.0	☺
WINCHESTER	W4UOT	443.950	+	T107.2	☺

900 MHZ

LEWISBURG	KF4TNP	920.500	-		☺
MORRISTOWN	KQ4E	920.800	-		
NASHVILLE	K4ZGA	923.250	-		
SWEETWATER	KG4KIJ	920.900	-	PROP	

1270 MHZ

LEWISBURG	KF4TNP	1285.300	-		☺
MEMPHIS	N4HKS	1292.000	-		
NASHVILLE	WA4AKM	1284.400	-		☺
NASHVILLE	K1YJ	1286.000	-	T88.5	☺
NASHVILLE	KD4EEW	439.250	+		
SMITHVILLE	KB4ZOE	1286.500	-		☺

VIRGINIA

10 METERS

FANCY GAP	KE4QOX	29.660	-	T123.0	
NEWPORT NEWS	W4CM	29.600	+		
STERLING PARK	KD4DN	29.680	-		

6 METERS

ALEXANDRIA	W4HFH	53.130	-		
AMELIA	WB3R	53.390	-		
BALD TOP MT	AD4CG	53.910	-		
BEDFORD/THNDR	N4TZE	53.770	-	T173.8	
BEDFRD/THAX MT	N4CH	53.150	-		☺
BLUEFIELD	N8RIG	53.370	-		☺
BULLRUN	K8GP	53.450	-		
CHESTERFIELD	KD4SUU	53.430	-		
DANVILLE(DCC)	WB4GJG	53.130	-	T	
FANCY GAP	WA4CQK	53.290	-	T100.0	☺
GATE CITY	N4WWB	53.210	-		
GUM SPRING	KB4MIC	53.070	-	203.5	☺
HAMPTON	WA4OHX	53.890	-		
LEXNGTN/ROCK MT.	KI4ZR	53.010	-		☺
LYNCHBURG	KE4KEH	53.570	-	103.5	☺
MCCLEAN	K6LEW	53.370	-		
NEWPORT NEWS	KT4QW	53.250	-	T100	☺
PEARISBURG	KE4JYN	53.470	-	T107.2	☺
RICE	KE4SFU	53.170	-		☺
ROANOKE	N4CH	53.250	-		☺
ROANOKE/POOR MT	WB8BON	53.090	-		☺
ROCKY MT/FERRUM	WD4KZK	53.270	-	T107.2	
VESTA	KG4KUA	53.430	-	PROP	
WHITE TOP MTN	KB4YFV	53.650	-		

2 METERS

ABINGDN/BRMLY MT	K4JP	146.610	-		
ABINGDON	NM4L	147.345	+	T103.5	☺
ACCOMAC	K4BW	147.255	+	T156.7	☺
ALEXANDRIA	K4US	146.655	-		
ALEXANDRIA	W4HFH	147.315	+		
ALTAVISTA	WA4ISI	146.655	-		☺
AMELIA	WB3R	145.190	-		
AMELIA COURTHSE	KB4YKV	147.180	+		
AMHERST	K4CQ	145.490	-	T136.5	☺
ARLINGTON	WB4MJF	145.150	-		
ARLINGTON	WB4MJF	145.470	-		
ARLINGTON	KF4JPC	146.625	-		
BEDFORD	N4CH	145.230	-		☺
BEDFORD	WB4JBJ	147.105	+		
BEDFRD/APL ORCH	WA1ZMS	146.685	-	T100.0	☺
BIG "A" MTN	KD4TC	146.805	+	T103.5	☺
BLACKSBURG	W9KIC	146.715	-		
BLAND	N4AZJ	145.350	-	T103.5	☺
BLUEFIELD	KD8XK	145.250	-	T100.0	☺
BLUEFIELD	W8MOP	145.490	-		☺
BLUEFIELD/ONEIDA	WZ8E	146.955	-	100.0	☺
BLUEMONT	WA4TSC	147.300	+		
BOYDTON	KD4ZTK	147.240	+		
CARBO	KK4MW	147.075	-		☺
CHARLOTTESVILLE	WA4TFZ	146.760	-	T151.4	☺
CHARLOTTESVILLE	WA4TFZ	146.925	-	T151.4	☺
CHESAPEAKE	W4CAR	146.610	-		☺
CHESAPEAKE	N4SD	146.790	-		
CHESAPEAKE	W4CAR	146.820	-	T162.2	☺
CHESTERFIELD	KD4KWP	145.310	-	PROP	☺
CHESTERFIELD	KA4CBB	147.360	+		☺
CLINCHCO	KB4RFN	147.150	+	T88.5	
#CLINCHCO	WD4CYZ	147.255	+	UNCOR	
COEBURN	AD4OV	145.430	-	103.5	☺
COLONIAL HEIGHTS	KE4EUE	145.390	-	PROP	☺
COVINGTON	WA4HTI	146.805	-		☺
CULPEPER	AF4CY	145.410	-		
CULPEPER	W4CUL	147.120	+		
DANVILE/WHT OAK	K4AU	146.700	-	107.2	☺
DANVILLE(DCC)	WB4GJG	146.925	-	T88.5	
DUBLIN	W4CBM	146.670	-		☺
DULLES AIRPORT	W4DLS	145.310	-		
EASTVILLE	KC4KMY	147.345	+	T156.7	☺
ELK CRK/IRON MT	N4MGQ	147.240	+	T107.2	☺
ENON	WB4VWR	147.060	+	T107.2	
FAIRFAX	K4KXK	146.790	-		
FANCY GAP	NC4BL	146.970	-	T100.0	☺
FARMVILLE	KE4ZBH	145.330	-		
FARMVILLE	KE4ZBH	146.910	-		
FARMVILLE	N4CFA	146.955	-	T136.5	☺
FINCASTLE	W4WIC	146.640	-		☺
FOREST	AG4AN	146.775	-	PROP	
FRANKLIN	W4LG	147.300	+	T131.8	
FREDERICKSBUR	K4TS	147.015	+		
GALAX/BRIRP MT	W4BRC	147.090	+		☺
GARRISONVILLE	N4NW	145.270	-		
GATE CITY	N4WWB	146.820	-	T	
GLOUCESTER	W4HZL	145.370	-	T	☺
GOOCHLAND	N4TZE	147.090	+		
GREENBAY	K4ARO	145.150	-		☺
GRUNDY	K4HWQ	147.315	+		
GRUNDY/BIG A MT	KK4EH	146.835	-		☺
GUM SPRING	WB4IKL	147.270	+		☺
HAMPTON	WA4OHX	145.490	-		
HAMPTON	KG4NJA	146.670	-	173.8	☺
HAMPTON	W4QR	146.730	-		
HAMPTON	KA4VXR	147.225	+	T136.5	☺
HARRISONBURG	N4YET	145.130	-		
HARRISONBURG	N4RAG	146.895	-		
HARRISONBURG	N4RAG	147.225	+		
HARRISONBURG	N4YET	147.315	+		
HIGH KNOB MT	K4QZJ	145.210	-		
JARRATT I-95	K4SVA	146.625	-	T100.0	☺
KILMARNOCK	W4GSF	146.835	-	PROP	☺
KINGS CROSSING	N5GQD	147.150	+		
LEXINGTON	KI4ZR	147.300	+		☺
LEXNGTN/ROCK MT.	KI4ZR	147.330	+		☺
LURAY	KE4JSV	147.030	+		
LYNCHBURG	KC4RBA	145.370	-	186.2	☺
LYNCHBURG	W4WWQ	146.610	-	136.5	☺
LYNCHBURG	AB4M	147.015	-	T131.8	☺
LYNCHBURG	KE4VNN	147.165	+	PROP	☺
LYNCHBURG	WA4RTS	147.195	+	T136.5	☺
MANASSAS	W4OVH	146.970	-		
MARION	WB3T	145.270	-	103.5	
MARION	N4QLF	146.640	-	T103.5	
MARTINSVILLE	KF4KVG	147.285	+	T107.2	☺
MCLEAN	W4CIA	147.210	+		
MECHANICSVILLE	W4TTL	146.805	-	PROP	
MONTEREY	WD4ITN	147.180	+	T100.0	☺
MONTPELIER	KQ4RH	145.250	-	T	
MOUNTAIN LAKE	WZ8E	146.865	+	110.9	☺
MT.LAKE/BALD KNB	K4TUE	146.910	-	107.2	☺
NEWMARKET	W3MMC	146.625	-		
NEWPORT NEWS	W4MT	145.230	-	T100.0	☺
NEWPORT NEWS	W4CM	147.165	+		
NORFOLK	WA4ZUA	145.170	-	136.5	☺
NORFOLK	W4VB	145.330	-		☺
NORFOLK	KF8PT	146.700	-	PROP	
NORFOLK	AD4ZK	147.075	+		☺
NORTON	KG4VFO	146.865	-	T103.5	
NORTON/HIGH KNB	K4AXO	147.015	-	T88.5	
PAGECO	KD4DDI	146.670	-		
PATRICK SPRINGS	WG8S	147.120	+	T107.2	☺
PATRICK SPRINGS	NJ1K	147.150	+	T107.2	☺
PEARISBURG	N4AZJ	147.135	+	T100.0	☺
PEARISBURG	W4NRV	147.375	+	T100.0	☺
PETERSBURG	KE4SCS	146.985	-	PROP	☺
PETERSBURG	K4ARO	147.390	+		☺
PKS KB/PULASKI	N4NRV	147.180	+	T103.5	☺
PORTSMOUTH	W4POX	145.390	-	PROP	☺
PORTSMOUTH	W4POX	146.850	-		☺
#POWHATAN	KC4NSE	147.210	-	UNCOR	☺
QUANTICO	#W4NFR	147.345	+		
RADFORD/RINER	N3ZE	145.150	-		☺
RICHMOND	K4YPE	145.110	-		☺
RICHMOND	W4SQT	145.430	-		☺
RICHMOND	WB4QEY	146.640	-		
RICHMOND	W4RAT	146.880	-	PROP	☺
RICHMOND	W4ZA	146.940	-		☺
RICHMOND	WA4JST	147.030	-		
RICHMOND	KC4VDZ	147.135	+	T107.2	☺
ROANOKE	N2EDE	145.210	-	T107.2	☺
ROANOKE	KA4THY	145.450	-	PROP	
ROANOKE	N4AP	146.940	-		
ROANOKE/POOR MT	K4ARO	145.390	-	T107.2	☺
ROANOKE/POOR MT	K4ROA	146.745	-	T107.2	
ROANOKE/POOR MT	W4CA	146.985	-		
ROANOKE/POOR MT	KB4QWO	147.270	+		☺
RUSTBURG	N4UTN	145.290	-	T	
RUSTBURG/LONG MT	N4UTN	146.835	-	T173.8	
SALEM	WA4V	146.880	-		
SALUDA	AA4HQ	145.450	-		☺
SMITHFIELD	WT4RA	147.195	+	T100.0	☺
SOUTH BOSTON	W4HCH	145.350	-		☺
SOUTH BOSTON	KF4AGO	147.060	-		☺
SOUTH HILL	N4ZCM	145.470	-		
SPOTSYLVANIA	K4MQF	146.775	-		
STAUNTON	KD4WWF	146.700	-	T131.8	
STAUNTON	WA4ZBP	146.850	-	T131.8	
STAUNTON	W4WRN	146.970	-		
STAUNTON/EL.KB	KE4CKJ	147.045	+	T131.8	☺
STERLING	WA4TXE	146.700	-		
STUARTS DRAFT	KB4OLM	147.360	+		
SUFFOLK	W4LG	147.000	-	T100.0	
TYSONS CORNER	KF4QQP	146.910	-		
VIENNA	K4HTA	146.685	-		
VIRGINIA BEACH	WA4KXV	146.895	-		☺
VIRGINIA BEACH	WA4KXV	146.970	-		☺
VIRGINIA BEACH	WA4SBC	147.045	+		
WALKERTON	W4TTL	146.715	-		
WARRENTON	KB3BOI	145.350	-		
WARRENTON	NZ4N	147.165	+		
WARSAW	KA4ZIP	147.285	+		☺
WAYNESBORO	W4PNT	147.075	+		☺
WILLIAMSBURG	KF4ADM	145.410	-	127.3	☺
WILLIAMSBURG	KB4ZIN	146.760	-		☺
WILLIAMSBURG	KB4ZIN	147.105	+		☺
WINCHESTER	KB3BOI	145.350	-		
WINCHESTER	W4RKC	146.820	-		
WOODBRIDGE	W4IY	147.240	+		
WYTH/WALKER MT	WB3T	146.895	-	T103.5	☺
WYTHEVILLE	WB3T	146.775	-	T107.2	☺

220 MHZ

ARLINGTON	WB4MJF	224.060	-		
ARLINGTON	WB4MWF	224.620	-		
BEDFORD	N4PLV	224.840	-		☺
BEDFRD/APL ORCH	WA1ZMS	224.180	-	T100.0	☺
BELL KNOB	WD4KHP	224.440	-		
BERRYVILLE	WD4KHP	224.400	-		
BERRYVILLE	WD4KHP	224.740	-		
BLUEFIELD	N8FWL	224.440	-	T123.0	☺
BLUEFIELD	WA8O	224.920	-		☺
BLUEMTN	KF4VED	224.160	-		
CHARLOTTESVILLE	N4HRV	224.140	-	T88.5	☺
CHARLOTTESVILLE	WA4TFZ	224.760	-		☺
CHESAPEAKE	W4LG	224.980	-	PROP	
DELTAVILLE	AA4HQ	224.900	-		☺
FAIRFAX	WB4YHD	224.100	-		
FANCY GAP	K4DQ	224.880	-	T100.0	

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . conclude!

VIRGINIA REPEATERS CONTINUE

GLOUCESTER	W4GSF	224.620 -		☺
HAMPDEN-SYDNEY	W4JAS	224.200 -		
HAMPTON	WB4PVT	224.540 -	T100.0	☺
HARRISONBURG	N4YET	224.820 -		
HAYMARKET	WD4KHP	224.420 -		
HAYMARKET	WD4KHP	224.720 -		
LAKE GASTON	W4LG	224.600 -		
LEESBURG	N0NW	224.020 -		
LOVETTSVILLE	WB4FUJ	224.460 -		
LURAY	KE4JSV	224.360 -		
LYNCHBURG	AB4M	224.280 -		☺
MANASSAS	W4OVH	224.660 -		
MARTINSVILLE	K4RCA	224.500 -		☺
NORFOLK	KC4JGC	224.740 -	T100.0	
NORTON/HIGH KNB	WD4GSM	224.420 -		
PATRICK SPRINGS	WG8S	224.420 -	T103.5	☺
PEARISBURG	KQ4Q	224.860 -	107.2	☺
PETERSBURG	K4ARO	224.700 -		☺
RIDGEWAY	WS4W	224.380 -	T	
ROANOKE	N4CH	224.100 -		☺
ROANOKE	N2EDE	224.940 -	T107.2	☺
ROANOKE/TINKER	K4YDG	224.900 -		☺
STAUNTON/EL KNOB	KE4CKJ	224.300 -	T131.8	☺
TYSONS CORNER	KM4OI	224.340 -		
TYSONS CORNER	WD4KHP	224.420 -		
WAYNESBORO	KA4RCL	224.680 -	T131.8	
WINCHESTER	N3HXT	224.220 -		
WOODBRIDGE	W4IY	224.780 -		
WYTHEVILLE	K4YW	224.560 -	T77.0	☺

440 MHZ

ABINGDON	KB8KSP	442.975 +	T100.0	☺
ABINGDON	WB3T	444.025 +	T103.5	☺
ACCOMACK	K4BW	444.300 +	T156.7	☺
ALTAVISTA	WA4ISI	444.425 +	100.0	☺
AMELIA	KB4YKV	443.200 +		
ARLINGTON	KD4DSX	448.625 -		
ARLINGTON	W8HNT	449.325 -		
ARLINGTON	WB4MJF	444.150 +		
ARLINGTON	K4AF	444.550 +		
#ASHBURN	KQ4CI	448.825 -	UNCOR	☺
#ASHBURN	KQ4CI	442.100 +	UNCOR	☺
BASSETT	KF4RMT	442.725 +	T107.2	
BEDFORD	N4CH	444.350 +		☺
BEDFRD/APL ORCH	WA1ZMS	442.650 +	T100.0	☺
BEDFRD/APL ORCH	WA1ZMS	443.800 +	T100.0	☺
BELL KNOB	WD4KHP	449.825 -		
BENT MT	K4YD	443.675 +	T107.2	☺
BERRYVILLE	WB2KPH	447.475 -		
BIG A MTN	KB4WTP	444.875 +		☺
#BLACKSTONE	KC4NSE	446.825 -	UNCOR	
BLUEFIELD	W8MOP	442.450 +		☺
BLUEFIELD	W8MOP	444.450 +		☺
BLUEFIELD	WZ8E	444.625 +		☺
BLUEMONT	WA4TSC	449.925 -		
BLUEMONT	WA4TSC	449.925 -		
BULL RUN MT	WA3KOK	447.775 -		
CHARLOTTESVILLE	KF4UCI	442.075 +	151.4	☺
CHARLOTTESVILLE	WA4TFZ	444.250 +	T151.4	☺
#CHARLOTTEVILLE	KF4UCI	444.775 +	UNCOR	☺
CHESAPEAKE	W4CAR	444.000 +	T162.2	☺
CHESTERFIELD	WA3KOK	433.075 +	PROP	
CHESTERFIELD	KA4CBB	442.150 +		☺
CHESTERFIELD	WA3KOK	442.450 +	PROP	
CHRISTIANSBURG	WD4BSB	444.650 +	PROP	☺
COPPER RIDGE	KB4WTP	444.550 +	PROP	☺
COVINGTON	WA4PGI	442.250 +	T100.0	☺
DALE CITY	N8BOR	443.100 +		
DANVILE/WHT OAK	K4AU	444.700 +		☺
DANVILLE	KQ4I	443.850 +		☺
DISMAL PEAK	WB3T	443.325 +	T103.5	☺
ENON	WB4VWR	444.200 +		
FAIRFAX	K4HTA	448.375 -		
FAIRFAX	WD4KHP	449.775 -		
FALLS CHURCH	WB4UNB	447.425 -		
FALLSCHURCH	KF4LWJ	444.300 +		
FANCY GAP	WD4ICX	433.200 +		
FANCY GAP	WB3T	444.050 +	T103.5	☺
FANCY GAP	N4OWU	444.375 +	T107.2	
FANCY GAP	WA4CQK	444.900 +	T100.0	☺
FANCY GAP	KD4FWS	444.925 +	100.0	
FOREST	AG4AN	442.475 +	PROP	
FRANKLIN	KG4BKI	444.825 +	PROP	
FRONT ROYAL	N4MKH	449.225 -		
GASBURG	W4LG	442.000 +		
GATE CITY	N4WWB	444.700 +		
GLOUCESTER	N4XND	421.250 +		
GRETNA/SMITH MT	KD4TBC	444.075 +	T123.0	
GUM SPRING	KB4MIC	442.800 +		☺
HAMPTON	KG4NJA	443.650 +	PROP	☺
HAMPTON	WA4OHX	443.750 +	100.0	
HAMPTON	W4QR	444.550 +	T167.9	
HARRISONBURG	N4YET	444.600 +		
HAYMARKET	KT4ER	448.325 -		
HAYMARKET	N3AUY	449.025 -		
HERNDON	N4LXI	443.000 +		
HIGHKNOB	N1TXI	447.725 -		
HILLSVILLE	KB4YFV	442.125 +	T103.5	
HILLSVILLE	KB4GHT	442.325 +	PROP	
INDEPENDENCE	W4RCT	443.375 +	T103.5	☺
JONESVILLE	WB4IVB	442.575 +	T100.0	
LEXINGTON	KI4ZR	444.300 +		☺
LEXNGTN/ROCK MT.	KI4ZR	444.150 +		☺
LORTON	WD4KHP	449.725 -		
LYNCHBG/JACK MT.	KF4YI	442.400 +	T107.2	
LYNCHBRG/TOB MT	K4CQ	444.500 +	T136.5	
LYNCHBURG	K4CQ	420.050 +	136.5	☺
LYNCHBURG	K4CQ	923.250 -		☺
LYNCHBURG	KE4VNN	442.350 +	T136.5	☺
LYNCHBURG	AB4FU	442.950 +	T	☺
LYNCHBURG	KC4RBA	443.450 +	186.2	☺
LYNCHBURG	N4TZE	444.000 +	T103.5	
LYNCHBURG/T.ROW	N4IFC	442.200 +	T103.5	
MADISON	N8HON	444.400 +		
MANASSAS	W4OVH	442.200 +		
MARION	WB3T	443.125 +	T103.5	☺
MARTINSVILLE	KF4RMT	443.825 +	T107.2	
NEWPORT	K4TUE	441.950 +	PROP	
NEWPORT NEWS	W4MT	442.900 +	T100.0	☺
NORFOLK	W4VB	442.950 +	131.8	☺
NORFOLK	AD4ZK	444.475 +	T127.3	☺
NORFOLK	WD4MIZ	444.675 +	T107.2	
OILVILLE	KB4MIC	444.800 +		☺
PATRICK SPRINGS	WG8S	443.175 +		☺
PATRICK SPRINGS	KC3FB	443.750 +	T77.0	
PEARISBURG	K4IJ	444.675 +	PROP	☺
PEARISBURG	N4AZJ	444.975 +	T103.5	☺
PETERSBURG	K4ARO	442.600 +		☺
PETERSBURG	WB4KZI	443.825 +		
POPS PEAK	N4JNE	441.700 +	PROP	
PORTSMOUTH	W4POX	443.800 +		☺
POUND	KF4VDF	444.850 +	T103.5	
POWHATAN	KN4YM	443.100 +		
#PRINCE GEORGE	W4RDF	444.275 +	UNCOR	
PULASKI	KE4CIF	442.775 +	T	
QUANTICO	N3QEM	447.975 -		
RICHMND/CHLTVL	N4EHJ	444.650 +		☺
RICHMOND	WA4AYB	441.600 +	PROP	
RICHMOND	KC4VDZ	442.300 +	T114.8	☺
RICHMOND	W4RAT	442.550 +	PROP	☺
RICHMOND	AB4SF	444.850 +	T	☺
ROANOKE	K4IJ	441.775 +	PROP	☺
ROANOKE	K4ARO	442.600 +	T	☺
ROANOKE	W7CP	442.700 +	T	
ROANOKE	K4IJ	444.275 +	PROP	☺
ROANOKE	WB3T	444.325 +	T103.5	☺
ROANOKE/MILL MT	WD4KZK	442.750 +	T107.2	
ROANOKE/POOR MT	W4CA	442.500 +		
ROANOKE/POOR MT	KA4IXK	442.850 +		☺
ROANOKE/POOR MTN.	K4NRW	444.175 +	T103.5	☺
ROANOKE/READ MT	WD4KZK	444.850 +	T107.2	
ROANOKE/TINKER M	WB8BON	444.925 +		☺
SILER	WA4RS	449.175 -		
SLINGS GAP	WD4KZK	444.775 +	T107.2	
SOUTH BOSTON	KF4AGO	443.925 +		☺
SOUTH BOSTON	W4HCH	444.625 +		☺
SOUTH HILL	KD4MJO	443.525 +	100.0	☺
SPOTSYLVANIA	N2XHZ	447.875 -		
SPOTSYLVANIA	KD4QNA	442.700 +		
SPOTSYLVANIA	K4MQF	442.850 +		
STAFFORD	K4HR	444.450 +		
STAUNTON	WA4ZBP	444.825 +	T131.8	
STAUNTON/EL KNOB	KE4CKJ	444.100 +	T131.8	☺
STERLING	WA4TXE	442.100 +		
STUARTS DRAFT	KB4OLM	444.050 +		
TYSONS CORNER	KA3RQR	447.025 -		
TYSONS CORNER	KM4FI	443.500 +		
VIENNA	N4KOU	444.850 +		
VIRGINIA BEACH	WA4KXV	444.950 +		
WAYNESBORO	N3XA	426.250 +		
WHITETOP MT	KM4X	443.000 +	T103.5	☺
WILLIAMSBURG	KB4ZIN	444.100 +		☺
WILLIS	W4DUM	443.875 +		
WINCHESTER	W4RKC	448.775 -	146.2	☺
WINCHESTER	W4RKC	448.775 -		
WINCHESTER	W3CSG	442.000 +		
WINTERGREEN	K4CQ	444.550 +	T136.5	☺
WOODBRIDGE	W4IY	444.900 +		
WYTHE/WALKER MT	WB3T	442.000 +	T103.5	☺
WYTHEVILLE	W4VSP	442.175 +	T103.5	☺
WYTHEVILLE	WB3T	442.525 +	103.5	☺

900 MHZ

ALEXANDRIA	WA4CCF	919.600 -		
BEDFRD/APL ORCH	WA1ZMS	921.100 -	T100.0	☺
CULPEPER	KA4DCS	919.400 -		
FANCY GAP	N4JNE	927.4875-	T100.0	
LYNCHBRG/TOB MT	K4CQ	921.000 -	T100.0	☺
ROANOKE/POOR MT	WD4KZK	919.500 -	107.2	
TYSONS CORNER	K6LEW	919.500 -		
WOODBRIDGE	KA4DCS	919.800 -		

1270 MHZ

BEDFRD/APL ORCH	WA1ZMS	1283.100 -	T100.0	☺
ROANOKE/POOR MT	N4CH	1291.020 -		☺

2.4GHz

BEDFRD/APL ORCH	WA1ZMS	2411.600 +		☺

WEST VIRGINIA

10 METERS

BECKLEY	KA8OTX	29.620 -		
BECKLEY	KE4QOX	29.680 -	T88.5	☺
CHARLESTON	WB8CQV	29.640 -	203.5	
RICHWOOD	WA8YWO	29.660 -	T100.0	

6 METERS

ALDERSON	WV8BD	53.190 -		☺
BECKLEY	N8FWL	53.170 -	T123.0	☺
BECKLEY	WB8YST	53.590 -	T107.2	☺
CHARLESTON	WB8YST	53.630 -	T107.2	☺
CULLODEN	KC8POU	53.030 -	PROP	
FLATWOODS	N8CQQ	53.110 -	PROP	
GASSAWAY	AB8WB	53.210 -	T123.0	
KENOVA	KC8PFI	53.870 -	PROP	
LEWISBURG	KC8LRN	53.930 -	T131.8	☺
MARMT/CHARLSTN	N8PEI	53.750 -	T141.3	
RICHWOOD	WB8YST	53.710 -	T107.2	☺
RICHWOOD	WA8YWO	53.830 -	T100.0	
SHIRLEY	KB8TJH	53.310 -		
SNOWSHOE	KC8CSE	53.330 -	T156.7	☺

2 METERS

AMBER RIDGE	KB8NJH	147.210 +	T107.2	☺
ANSTED	NM8T	146.790 -	100.0	☺
BECKLEY	KC8AFH	146.700 -	123.0	☺
BECKLEY	N8FWL	147.360 +	T123.0	☺
BECKLEY/BOLT MT	WV8B	145.170 -	T100.0	
BECKLEY/EOC	WV8BD	145.370 -		☺
BECKLEY/FLAT TOP	WV8BD	146.850 -		☺
BECKLEY/LAYLAND	N8FCJ	145.310 -	T100.0	
BECKLEY/OAK HILL	N8FWL	145.230 -	T100.0	☺
BERKELEY SPRINGS	KK3L	146.745 -		
BIRCH RIVER	N8FMD	145.270 -	T103.5	☺
BRIDGEPORT	WB8DKM	147.120 +	T	☺
BUCKHANNON	N8FHE	145.410 -		☺
BUCKHANNON	N8ZAR	146.850 -		
BUCKHANNON	N8ZAR	147.060 +	123.0	
CAPON MT	N8YIB	147.435 -		
CHARLESTON	W8GK	145.350 -	91.5	☺
CHARLESTON	WB8YST	145.430 -	T107.2	☺
CHARLESTON	WB8CQV	146.820 -	T192.8	
CHARLESTON	W8XF	147.000 -	T91.5	☺
CHARLESTOWN	N8EIV	146.985 -		
CLARKSBURG	N8FMD	146.685 -	T103.5	☺
CLARKSBURG	N8FMD	147.210 +	T103.5	☺
COWEN	KC8ECX	146.835 -	110.9	
DANVILLE	WB8NAM	146.685 -	T	
DAVIS	KE8MR	147.135 +	T103.5	☺
ELKINS	N8FMD	145.230 -	T103.5	☺
ELKINS	KB8BWZ	146.775 -		
FAIRMONT	W8SP	145.350 -	T103.5	
FENWICK	KD8AB	146.940 -		
FLAT TOP/WINTRPL	WV8B	146.625 -	T100.0	
FLATWOODS	N8ZPX	146.655 -	T123.0	
FRANKLIN	W3RUA	147.345 +		☺
FROST	N8RV	145.110 -	107.2	☺
GASSAWAY	WB8MZI	146.610 -		
GASSAWAY	AB8WB	147.240 +	T123.0	
GLENVILLE	N8OYY	145.130 -	103.5	
GLENVILLE	WB8WV	145.290 -	91.5	
GRAFTON	K8VE	146.820 -	T103.5	
GRAFTON	WD8LNB	147.375 +	118.8	☺
HARISVL/PENSBRO	WB8NSL	147.300 +	T107.2	
HARPER'SFERRY	KB3BOI	145.350 -		
HINTON	KC8CNL	147.255 +	100.0	☺
HUNTINGTON	WB8FEQ	145.210 -	162.2	
HUNTINGTON	W8VA	146.760 -	T131.8	☺
HUNTINGTON	N8OLC	146.985 -	131.8	
HUNTINGTON/CHAS	N8HZ	146.640 -		☺
IAEGER	N8SNW	146.655 -	T203.5	
KEYSER	N8RCG	147.390 +	123.0	☺
#LENORE	AI4UK	145.390 -	UNCOR	
LEON	WD8OHX	147.180 +		
LEWISBURG	WB8SPW	146.730 -	T100.0	
LEWISBURG	N4RAG	146.760 -	T131.8	
LEWISBURG	WV8D	147.390 +	T100.0	
LOGAN SOUTH	NV8H	147.195 +	100.0	☺
LOGAN/SUMERCO	KB8QXP	147.345 +	T100.0	☺
LOGAN/WRD RK MT	KC8CPK	146.970 -	T100.0	☺
MADISON	WB8NAM	147.120 +	T	
MARLINTON	N4RAG	147.090 +	131.8	
MARTINSBURG	WA8FSE	145.150 -		
MARTINSBURG	WB8YZV	147.255 +		
MARTINSBURG	K3MAD	147.345 +		
MCMECHEN	N8BQ	146.910 -		☺
MIDDLEBOURNE	WV8TC	147.360 +	T110.9	☺
MOOREFIELD	KD4SZR	145.190 -		
MORGANTOWN	K8LG	145.430 -		
MORGANTOWN	W8CUL	146.760 -		☺
MORGANTOWN	KE8MR	147.075 +	T103.5	☺
MT. ZION	N8LGY	145.450 -	T107.2	☺
MULLENS	KC8IT	147.030 +		
NEW MARTINSVILE	KF8LL	146.985 -		
OAK HILL	NM8T	147.075 -	PROP	☺
PARKERSBURG	WV8G	145.490 -		
PARKERSBURG	WC8EC	147.255 +		☺

WEST VIRGINIA REPEATERS CONTINUE

PARKERSBURG	WD8CYV	147.390	+	T141.3	
PARKERSBURG (OH)	N8NBL	146.970	-		
PARSONS	K8VNQ	145.370	-	T118.8	☺
PHILIPPI	K8VE	145.150	-	103.5	☺
PINEVILLE	W8LG	147.285	+		
PRINCETON	KA8PNC	147.060	-		☺
PRINCETON	WB8NRK	147.225	+	T114.8	☺
PRINCETON/PIPEST	WD8OGY	146.925	-		
RAVENSWOOD	WD8JNU	146.670	-		☺
RED HOUSE	WV8AR	145.410	-	T123.0	☺
RICHWOOD	WB8YJJ	145.190	-	T	
RICHWOOD	AA8TH	147.015	+	T	
RICHWOOD	KB8YDG	147.150	+	T100.0	☺
ROCKPORT	KC8TLG	147.135	+	T123.0	
SALT ROCK	K8SA	145.110	-	T110.9	
SCOTT DEPOT	WV8AR	147.270	+	123.0	☺
SHIRLEY	KB8TJH	145.310	-	T	
SKYLINE	K7SOB	147.360	+	T127.3	
SO. CHARLESTON	WB8CQV	146.880	-	203.5	
SPENCER	KA8AUW	147.105	+	100.0	☺
SPRUCE KNOB	N8HON	147.285	+		☺
ST.MARYS/BENS RG	WB8ECC	147.030	+		
SUMMERSVILLE	N8YHK	145.470	-	100.0	
TERRA ALTA	KD8ZR	147.000	+	T	
UNION	W8IFL	145.410	-	T100.0	☺
WEBSTER SPRINGS	K8VE	146.955	-	T123.0	
WEIRTON	W8CWO	146.940	-		
WELCH	WV8ED	145.450	-		☺
WESTON	WD8EOM	145.390	-		
WESTON	KA8TCF	147.165	+		
WHEELING	KA8YEZ	145.190	-	156.7	☺
WHEELING	W8ZQ	146.760	-		☺
WILLIAMSON	WR8M	145.330	-	T100.0	☺

220 MHZ

ANSTED	N8FWL	224.840	-	123.0	☺
BECKLEY	N8FWL	224.240	-	T123.0	☺
BECKLEY - SOUTH	N8FWL	224.740	-	PROP	☺
BECKLEY - WEST	N8FWL	224.540	-	123.0	☺
BECKLEY/OAK HILL	N8FWL	224.340	-	T123.0	☺
BERKELEY SPRINGS	KA3VLG	224.700	-		
CHARLESTON	WB8YST	224.360	-	107.2	☺
CHARLESTON	WS8L	224.700	-	T123.0	☺
CRAIGSVILLE	KC8LRN	224.480	-	T91.5	☺
FLAT TOP/WINTRPL	WV8B	224.120	-	100.0	
GREENBANK	KC8CSE	224.560	-	123.0	☺
HILLSBORO	KC8LRN	224.220	-	T131.8	☺
HINTON/BECKLEY	N8FWL	224.640	-	123.0	☺
#LEON	WD8OHX	223.780	-	UNCOR	
LEWISBURG	N8FWL	224.140	-	T123.0	☺
LEWISBURG	KC8LRN	224.800	-	T131.8	☺
SLATY FORK	KC8LRN	224.720	-	91.5	☺
SUTTON	W8COX	224.400	-	T123.0	
WILLIAMSON	WR8M	224.140	-		☺

440 MHZ

ALDERSON/SAM BLK.	N8LVE	444.400	+	T100.0	
BECKLEY	N8FWL	443.050	+	T123.0	☺
BECKLEY	N8LVE	444.125	+	T	
BECKLEY/BOLT	W8LG	443.225	+		
BECKLEY/OAK HILL	WB8YST	444.525	+	T110.9	
BECKLEY/OAK HILL	WV8B	444.800	+	100.0	☺
BECKLY/OAK HILL	KE4QOX	443.100	+	T107.2	☺
BELINGTON	N8SCS	444.900	+	141.3	☺
BERKELEY SPRINGS	WA3KOK	442.450	+		
BLUEFIELD	WZ8E	443.625	+	100.0	☺
BUCHANNON	K8VE	444.475	+	T146.2	
BUCKHANNON	N8ZAR	444.250	+		
CHAPMANVILLE	W8CH	442.475	+	PROP	
CHAPMANVILLE	W8CH	442.475	+	PROP	
CHARLESTON	KB8QKM	442.925	+	71.9	
CHARLESTON	WS8L	443.300	+	T123.0	☺
CHARLESTON	WV8AR	444.225	+	T123.0	☺
CHARLESTON	WB8YST	444.350	+	T107.2	☺
CHARLESTON	N8RKU	444.825	+	T123.0	
CLARKSBURG	N8FMD	444.175	+	T103.5	☺
CRAIGSVILLE	KC8SDN	443.650	+	T123.0	
CROSS LANES	KC8RRI	444.400	+	PROP	
DANS MT	N8YIB	145.330	+		
DUNMORE	KC8CSE	444.275	+	123.0	☺
FAIRMONT	W8SP	443.875	+		
FLATWOODS	KC8SDN	443.075	+	123.0	
FLATWOODS	W8FES	444.200	+		☺
GASSAWAY	AB8WB	444.675	+	T123.0	
GILBERT	KB8PCW	442.725	+	T	
GLENVILLE	KA8ZXP	444.325	+		
HERNSHAW	WB8CQV	444.700	+	203.5	
HUNTINGTON	WA4GSS	421.250	+		
HUNTINGTON	N8HZ	443.000	+		
HUNTINGTON	KB8TGK	443.850	+	T88.5	
HUNTINGTON/CHAS	WB8ZER	444.850	+	T131.8	☺
HURRICANE	K8OJC	444.075	+		
KENOVA	KC8PFI	443.600	+	162.2	
KEYSER	N8RCG	444.125	+	103.5	☺
LEWISBURG	KF8FO	444.725	+	T103.5	
LOGAN	NV8H	444.900	+	PROP	☺
MORGANTOWN	K8LG	444.700	+		
MORGANTOWN	W8CUL	444.800	+		☺
MULLENS	KC8IT	444.000	+		
OAK HILL	KA8OTX	443.800	+		
PARKERSBURG (OH)	N8ILO	444.100	+		
PENNSBORO	WB8NSL	442.850	+	T103.5	
PRINCETON	KB8UJG	443.700	+	T123.0	☺
RICHWOOD	K8VKB	442.275	+	123.0	
RICHWOOD	KC8SDN	443.375	+	T123.0	
RICHWOOD	KB8YDD	443.475	+		
RICHWOOD	KC8AUY	443.575	+	T	
RICHWOOD	KC8SDN	443.625	+	T123.0	
ROCKPORT	N8LHL	443.350	+	T123.0	
SHIRLEY	KB8TJH	444.425	+	T	
SO. CHARLESTON	WB8CQV	444.950	+	203.5	
ST. ALBANS	K8MHR	443.150	+		
WELCH	N8SNY	443.725	+		
WESTON	N8FIP	443.975	+		
WESTON	KA8TCF	444.600	+		
WHEELING	KB8QHO	421.250	+		
WHEELING	KA8YEZ	443.025	+	77.0HZ	☺
WHEELING	N8EKT	444.975	+		

Limited FULL MEMBERS FROM NON-SERA STATES

10 METERS

CHESTER, PA	W3PS	29.520	+	T156.7	☺

6 METERS

CONCORD, NH	KA1OKQ	53.590	-	71.9	☺

2 METERS

CHESTER, PA	W3PS	147.315	+	TT156.7	☺
CONCORD, NH	KA1OKQ	147.225	+	T100.0	☺
DELAND, FL	KD4UTV	147.045	+	T103.5	☺
HUNTSVILLE, AL	N4HSV	146.940	-		☺
HUNTSVILLE, AL	W4VM	147.100	+		☺
OCEAN CITY, NJ	W3PS	147.285	+	T156.7	☺
VINELAND, NJ	AA2LD	147.135	+	T156.7	☺
WINCHESTER, VA	W4RKC	146.820	-		☺

220 MHZ

CHESTER, PA	W3PS	224.960	-	T156.7	☺
CONCORD, NH	KA1OKQ	224.800	-	T103.5	☺
EAGLEVILLE, PA	W3PS	224.680	-	T156.7	☺
MILLVILLE, NJ	AA2LD	223.960	-	T156.7	☺
OCEAN CITY, NJ	W3PS	223.980	-	T156.7	☺
POTTSTOWN, PA	W3PS	224.400	-	T156.7	☺

440 MHZ

CHESTER, PA	W3PS	443.050	+	T156.7	☺
CONCORD, NH	KA1OKQ	448.775	-	T82.5	☺
HUNTSVILL, AL	KE4LRX	443.475	+		☺
HUNTSVILLE, AL	W4XE	444.300	+		☺
MADISON, VA	N8HON	444.400	+		☺
MCKINNEY, TX	KF5TU	442.350	+	T100.0	☺
PEMBROKE, NH	KA1OKQ	444.150	+		☺
PETERBORO, NH	KA1OKQ	443.350	+	T110.9	☺

900 MHZ

CHESTER, PA	W3PS	927.4875-			☺
EAGLEVILLE, PA	W3PS	927.5125-			☺
OCEAN CITY, NJ	W3PS	927.5375-			☺

1270 MHZ

CHESTER, PA	W3PS	1240.000	+		☺

SYMBOLS: ☺ = Full Member SERA T = Tone Accessed (plus tone freq)
# and/or UNCOR = Uncoordinated PROP = Proposed Rptr. Under Const.

SERA REPEATER INDEX LISTINGS BY FREQUENCY

10 METERS

29.6000 / 29.6000			
W4CM	NEWPORT NEWS		VA
29.52 0 / 29.6200			
KF4XH	#MACON		GA
29.5200 / 29.6200			
KQ4XL	MONROE		GA
K4XYZ	BUCKHORN LAKE	103.5	KY
KC4XE	WILKESBORO		NC
WB4IUY	ZEBULON		NC
W4ZJM	MEMPHIS	*#	TN
AJ4D	TELLICO PLAINS	141.3	TN
KA8OTX	BECKLEY		WV
29.5400 / 29.6400			
KK4CZ	LOUISVILLE		KY
KB5MPW	BAY SAINT LOUIS	136.5	MS
KE4QOX	HIGH POINT	103.5	NC
W4CAT	GALLATIN/BNA	107.2	TN
WB4NKM	GREENEVILLE		TN
WB8CQV	CHARLESTON	203.5	WV
29.5600 / 29.6600			
WR4MG	WARNER ROBINS		GA
K4GRW	NEWPORT		NC
N4JEH	ROCKY MOUNT		NC
W4GL	SUMTER		SC
KE4QOX	FANCY GAP	123.0	VA
WA8YWO	RICHWOOD	100.0	WV
29.5800 / 29.6800			
AI8H	CONYERS		GA
N4BZJ	DALTON		GA
KB0Y	VALDOSTA	141.3	GA
KA4UHL	INGLE	146.2	KY
WW4DC	THOMASVILLE	88.5	NC
N8ITF	SPRINGFIELD		TN
KE4QOX	BECKLEY	88.5	WV

6 METERS

52.5500 / 51.5500			
WB4JEH	#CONYERS	151.4	GA
51.2000 / 51.7000			
WA4YNZ	#CUMMING		GA
51.2400 / 51.7400			
KI4AWK	THOMASVILLE		GA
51.4400 / 51.9400			
KC5BMJ	KINGSLAND	82.5	GA
53.0250 / 52.0250			
WB4LBR	LOUISVILLE		KY
52.0100 / 53.0100			
W4MAZ	COCHRAN	77.0	GA
WA4YNZ	#ROSWELL		GA
KC4QK	ASHLAND	107.2	KY
N5EKR	ELLISVILLE		MS
KE4QOX	THOMASVILLE	88.5	NC
N4FV	GREENEVILLE	100.0	TN
WA4KOG	MEMPHIS		TN
WA4BGK	NASHVILLE	114.8	TN
KI4ZR	LEXNGTN/ROCK MT.		VA
52.0300 / 53.0300			
W4WTA	AUGUSTA		GA
K4ITL	RALEIGH		NC
AB4OE	BLACKSBURG	123.0	SC
KF4FTD	MORRISTOWN		TN
KC8POU	CULLODEN	123.0	WV
52.0500 / 53.0500			
KC4JNN	BISKEY MT.	100.0	GA
AB5MU	NETTLETON	192.8	MS
N4JEH	ROCKY MOUNT		NC
WA4PXV	SPRUCE PINE	151.4	NC
K4SHP	MYR BCH/AYNOR		SC
WA4BGK	GALLATIN	114.8	TN
52.0700 / 53.0700			
WB4AEG	CARTERSVILLE	123.0	GA
KB4PTJ	WILLIAMSBURG	100.0	KY
KD4FWS	MT.AIRY/FANCY GP	100.0	NC
KB4MIC	GUM SPRING	203.5	VA
52.0900 / 53.0900			
KD4DKW	ATL/MARIETTA	151.4	GA
N4ALG	NICHOLASVILLE	103.5	KY
KF4IXW	REELSBORO	162.2	NC
K4NOC	BISHOPVILLE		SC
KD4PBC	SEVIERVILLE		TN
NO4Q	WAVERLY		TN
WB8BON	ROANOKE/POOR MT		VA
52.1100 / 53.1100			
W4GR	LAWRENCEVILLE	82.5	GA
KC4YOT	GASTONIA		NC
KD4BGD	LUMBERTON		NC
K4SER	TARBORO		NC
WD4GYN	OAK RIDGE		TN
N8CQQ	FLATWOODS		WV
52.1300 / 53.1300			
N4BZJ	DALTON		GA
N4EQT	LAWRENCEBURG	107.2	KY
W4FOT	HENDERSONVILLE	100.0	NC
KG4IBW	DRESDEN	107.2	TN
W4HFH	ALEXANDRIA		VA
WB4GJG	DANVILLE(DCC)		VA
52.1500 / 53.1500			
KA5WZY	ATLANTA		GA
K4USC	UNION		SC
WB4IOB	KNXVL/ENG MT		TN
N5YKR	LEXINGTON	100.0	TN
N8ITF	SPRINGFIELD		TN
N4CH	BEDFRD/THAX MT		VA
52.1700 / 53.1700			
WW4DC	THOMASVILLE	88.5	NC
K4BGW	LAFOLLETTE		TN
KE4SFU	RICE		VA
N8FWL	BECKLEY	123.0	WV
52.1900 / 53.1900			
W4BAD	RALEIGH		NC
KN4AS	LITTLE MOUNTAIN	156.7	SC
WA4UCE	COOKEVILLE		TN
WV8BD	ALDERSON		WV
52.2100 / 53.2100			
N1KDO	MARIETTA	79.7	GA
N4QLX	SAURATOWN MT		NC
AD4U	ORANGEBURG		SC
N4WWB	GATE CITY		VA
AB8WB	GASSAWAY	123.0	WV
52.2300 / 53.2300			
KD4BDB	WARM SPRINGS	97.4	GA
KD4JFN	PITTSBORO	107.2	NC
KA4ZKL	GUTHRIE (TN/KY)		TN
KQ4E	MORRISTOWN		TN
52.2500 / 53.2500			
KF4BMG	MARIETTA	79.7	GA
WA4YON	#KNOXVILLE		TN
KT4QW	NEWPORT NEWS	100	VA
N4CH	ROANOKE		VA
52.2700 / 53.2700			
KC4CBQ	HIAWASSEE	186.2	GA
KA4UHL	NANCY	100.0	KY
WD4BQW	ASHEVILLE	100.0	NC
N5CWH	LEESVILLE	162.2	SC
WD4KZK	ROCKY MT/FERRUM	107.2	VA
52.2900 / 53.2900			
K4PLM	#PINE LOG MT.	198.2	GA
KF4UAQ	LOUISVILLE		KY
KF4SXO	CHESTER		SC
WA4CQK	FANCY GAP	100.0	VA
52.3100 / 53.3100			
AB4JJ	WEST JEFFERSON	100.0	NC
K4SER	WILLIAMSTON		NC
KG4BZN	WALTERBORO	123.0	SC
KB8TJH	SHIRLEY		WV
52.3300 / 53.3300			
KD4FVI	CRAWFORD	88.5	GA
AD4CC	HIGHLAND HEIGHTS	123.0	KY
W4TLP	CLINTON		NC
K4DHT	MOUNTAIN CITY	100.0	TN
KB4IDC	MT. JULIET	100.0	TN
KC8CSE	SNOWSHOE	156.7	WV
52.3500 / 53.3500			
WR4AMS	DORTON		KY
WR4BEG	SOPHIA/RANDLEMAN		NC
K4VCM	CHATTANOOGA		TN

PLEASE NOTE

The Repeater Journal lists subtones used on repeaters ONLY if they are requested to be listed by the sponsor or owner. The listing of a subtone on any repeater does not in any way indicate it being a "closed" repeater. In most cases, the tones are used to eliminate noise problems and are listed at the owners request for users convenience.

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

52.3700 / 53.3700			
W4ZO	MONROE	100.0	NC
KD4MYE	YOUNGSVILLE		NC
KC4PDQ	MARYVILLE		TN
N8RIG	BLUEFIELD		VA
52.3900 / 53.3900			
KF4XH	#MACON		GA
KE4RKF	WAYNESBURG	100.0	KY
AB4JJ	WEST JEFFERSON	100.0	NC
WB3R	AMELIA		VA
52.4100 / 53.4100			
WA1YYN	EFLAND	107.2	NC
KO4MZ	GVL/CSR'S HEAD	131.8	SC
52.4300 / 53.4300			
KR4OL	#MACON		GA
N7BBW	LOUISVILLE	151.4	KY
AD4DN	#WILMINGTON	88.5	NC
K4GX	KINGSPORT		TN
KD4SUU	CHESTERFIELD		VA
KG4KUA	VESTA	107.2	VA
52.4500 / 53.4500			
WD4OVN	#PINE LOG MT		GA
KC5PIA	LAUREL		MS
W4UNC	CHAPEL HILL	107.2	NC
NQ4Y	MONTEAGLE MTN	114.8	TN
K8GP	BULLRUN		VA
52.4700 / 53.4700			
W5PFC	JACKSON	77.0	MS
KF4BJO	GAFFNEY		SC
KB4REC	KNOXVILLE		TN
KE4JYN	PEARISBURG	107.2	VA
52.5500 / 53.5500			
WB4JEH	CONYERS	151.4	GA
N4OQJ	KNOXVILLE	100.0	TN
K4RDK	MEMPHIS		TN
52.5700 / 53.5700			
KD4AOZ	WATKINSVILLE	123.0	GA
KE4LGL	LEXINGTON		KY
KE4KEH	LYNCHBURG	103.5	VA
52.5900 / 53.5900			
KF4QDS	KVILLE/HIPOINT	103.5	NC
KF4IWA	MOUNTAIN REST		SC
WB8YST	BECKLEY	107.2	WV
52.6300 / 53.6300			
AB4JJ	MT MITCHELL	100.0	NC
WB8YST	CHARLESTON	107.2	WV
51.1400 / 53.6500			
KB5MPW	BAY SAINT LOUIS	136.5	MS
52.6500 / 53.6500			
KB4YFV	WHITE TOP MTN		VA
51.2000 / 53.7100			
KE4OVN	LANEVIEW	107.2	TN
52.7100 / 53.7100			
KD4YWB	ROBBINSVILLE	167.9	NC
WB8YST	RICHWOOD	107.2	WV
52.7300 / 53.7300			
KF4CXL	MCINTYRE	77.0	GA
K4XYZ	BUCKHORN LAKE	100.0	KY
WD4OAR	GEORGETOWN	192.8	TN
52.7500 / 53.7500			
KK4MC	SUMMERVILLE	127.3	GA
W4YWH	HIGHLAND HEIGHTS	123.0	KY
WA4PXV	AIR BELLOWS GAP		NC
W4BAD	DURHAM		NC
K4GX	#ROGERSVILLE	114.8	TN
N8PEI	MARMT/CHARLSTN	141.3	WV
52.7700 / 53.7700			
W4GL	SUMTER		SC
W4BBB	KNOXVILLE/RACK	100.0	TN
N4TZE	BEDFORD/THNDR	173.8	VA
52.7900 / 53.7900			
WR4MG	WARNER ROBINS		GA
WA4NC	BOONE	100.0	NC
52.8100 / 53.8100			
WD4KNE	#STANTON		KY
W4EBM	#FAYETTEVILLE		NC
52.8500 / 53.8500			
K4TDO	HAZARD		KY
52.8700 / 53.8700			
KC8PFI	KENOVA	91.5	WV
52.8900 / 53.8900			
KB0Y	LAKE PARK	141.3	GA
WB4HJG	LULA	82.5	GA
KN4E	ELIZABETHTON	88.5	TN
WA4OHX	HAMPTON		VA
52.9100 / 53.9100			
KE4ZJT	LONDON	100.0	KY
52.9300 / 53.9300			
N1IB	CUMMING	107.2	GA
W4GMM	MEMPHIS	107.2	TN
KC8LRN	LEWISBURG	131.8	WV
52.9500 / 53.9500			
WB4WSB	LAGRANGE		KY
52.9700 / 53.9700			
N4DAJ	MT. AIRY	100.0	NC

2 METERS

144.5100 / 145.1100			
KK4HL	AUGUSTA		GA
N4MXC	COCHRAN	107.2	GA
KR4HV	DOUGLASVILLE	88.5	GA
KC4UPE	LEESBURG	192.8	KY
KD5AXY	FLORENCE		MS
W5WA	VANCLEAVE	123.0	MS
W4PCN	KILL DEVIL HILLS	131.8	NC
N4GSM	ROBBINSVILLE	151.4	NC
KD4MYE	YOUNGSVILLE	88.5	NC
WZ4SC	FORT MILL		SC
W4GS	MYR BCH/CONWAY		SC
KK4TD	COOKEVILLE		TN
WM4T	GRAY		TN
KF4OID	MOSCOW	107.2	TN
N4ARK	NASHVL/FAIRVIEW	151.4	TN
K4YPE	RICHMOND		VA
N8RV	FROST	107.2	WV
K8SA	SALT ROCK	110.9	WV
144.5300 / 145.1300			
K4SEX	NEWNAN	156.7	GA
WR4SG	VALDOSTA	141.3	GA
N4UL	LOUISVILLE AREA	151.4	KY
KJ4VF	MOREHEAD	100.0	KY
WB4YNF	#AHOSKIE	131.8	NC
N4VL	MT. AIRY	103.5	NC
W4RNC	RALEIGH	82.5	NC
W4JAK	GREENWOOD		SC
K4JR	SUMTER		SC
K4CMY	CHATTANOOGA		TN
KA4OAK	LAFOLLETTE		TN
KF4ATY	MEMPHIS	107.2	TN
KC4WPS	NASHVILLE	114.8	TN
N8OYY	GLENVILLE	103.5	WV
144.5500 / 145.1500			
K4TWG	BACONTON		GA
W4AQL	GA TECH	167.9	GA
KF4CXL	MCINTYRE	77.0	GA
KG4CCW	LOUISVILLE	141.3	KY
KY4JW	MONTICELLO	100.0	KY
AD4BI	PIKEVILLE	107.2	KY
KE5LT	PICAYUNE		MS
K2IMO	ELM CITY	88.5	NC
W4GSO	GREENSBORO	100.0	NC
K4OBX	HATTERAS ISLAND	131.8	NC
W4LBT	#LUMBERTON		NC
N4LWY	SUMMERTON		SC
K4USC	UNION		SC
KG4FZR	ATHENS	141.3	TN
KB4IBW	DRESDEN	107.2	TN
W4XS	FRANKLIN		TN
K4ARO	GREENBAY		VA
N3ZE	RADFORD/RINER		VA
K8VE	PHILIPPI	103.5	WV
144.5700 / 145.1700			
WA4DIW	JONESBORO		GA
W8PRH	HALLS GAP		KY
W5JWX	RAYMOND	77.0	MS
K4CCR	ANDSN MT/DENVER	88.5	NC
N4JDW	WILMINGTON	88.5	NC
KY4S	AIKEN		SC
K4NOC	BISHOPVILLE	123.0	SC
WF4Q	BRUCETON	107.2	TN
WB4GBI	KNOXVILLE		TN
WB4LHO	MURFREESBORO		TN
WA4ZUA	NORFOLK	136.5	VA
WV8B	BECKLEY/BOLT MT	100.0	WV
144.5900 / 145.1900			
W4CBA	GAINESVILLE	131.8	GA
WA4EQL	JESUP		GA
WB4ULJ	PINE MT/HAMILTON		GA
KB4SQI	SALYERSVILLE	127.3	KY
K5YD	BOONEVILLE	110.9	MS
W5CJR	HATTIESBURG	136.5	MS
KA4SQN	JACKSONVILLE		NC
WA4BVW	MT MITCHELL		NC
K4GWH	RALEIGH	156.7	NC
N4OTT	CARTHAGE		TN
KD4XV	JASPER	127.3	TN
N4ZKR	NEWBERN	100.0	TN
WB3R	AMELIA		VA
WB8YJJ	RICHWOOD		WV
KA8YEZ	WHEELING	156.7	WV
144.6100 / 145.2100			
KC4RRO	EASTMAN		GA
WA4EPK	FAYETTEVILLE	131.8	GA
W8PRH	LEXINGTN/GRGTWN		KY
W5SAR	#WAYNESBORO		MS
K4OLC	HIGH PEAK MTN	94.8	NC
WB4TQD	TRENTON		NC
KG4LAP	SMOAKS		SC
W2GLJ	GERMANTOWN		TN
W4BBB	KNOXVILLE/RACK	100.0	TN
N4ARK	NASHVILLE		TN
K4QZJ	HIGH KNOB MT		VA
N2EDE	ROANOKE	107.2	VA
WB8FEQ	HUNTINGTON	162.2	WV
144.6300 / 145.2300			
WB4JEH	CONYERS	151.4	GA
W4DRC	DALTON		GA
K4BR	WAYNESBORO		GA
W8PRH	LOUISVILLE		KY
W4KBL	PRINCETON	103.5	KY
KG4GQC	WEST LIBERTY	107.2	KY
W5NRU	ELLISVILLE	136.5	MS
KC5VZI	#NEW ALBANY		MS
N4VBH	BEULAVILLE		NC
W4UNC	CHAPEL HILL	107.2	NC
W4BFB	CHARLOTTE		NC
KG4AQH	GREELEYVILLE		SC
W4CAT	LAVERNE		TN
KB4KIE	MAYNARDVILLE		TN
KE4NTL	RIPLEY	100.0	TN
N4CH	BEDFORD		VA
W4MT	NEWPORT NEWS	100.0	VA
N8FWL	BECKLEY/OAK HILL	100.0	WV
N8FMD	ELKINS	103.5	WV
144.6500 / 145.2500			
N4YYD	CHATSWORTH	71.9	GA
KF4CXL	MCINTYRE	136.5	GA
AD4YJ	LEXINGTON	110.9	KY
W4GG	GREENSBORO	88.5	NC
WA4USN	CHARLESTON		SC
WA4UKX	SIMPSONVILLE	123.0	SC
KT4WS	DOVER	100.0	TN
W4NKW	ERWIN/PINNACLE		TN
N4ER	MEMPHIS	146.2	TN
KD8XK	BLUEFIELD	100.0	VA
KQ4RH	MONTPELIER		VA
144.7500 / 145.2500			
KC4QLP	ELIZABETH CITY	131.8	NC
144.6700 / 145.2700			
KT4X	SANDERSVILLE	77.0	GA
K4AIS	WALESKA/PNLG MT	100.0	GA
N4KJU	PAINTSVILLE	127.3	KY
KD4BOH	ROCKPORT	77.0	KY
N5NBG	WALLS	162.2	MS
KB5DZJ	WIGGINS	136.5	MS
K4ITL	ASHEBORO	82.5	NC
K4ROK	FARMVILLE	131.8	NC
WA4KNI	HENDSVL/BERWLW		NC
N7GZT	COLUMBIA	162.2	SC
W4SRX	MONTEREY	123.0	TN
KD4CLA	PIGEON FORGE	100.0	TN
WB3T	MARION	103.5	VA
N8FMD	BIRCH RIVER	103.5	WV
144.6900 / 145.2900			
W4IBM	ATLANTA	88.5	GA
W4DV	AUGUSTA	100.0	GA
WR4MG	PERRY	107.2	GA
AC2DC	LOUISVILLE	151.4	KY
N4VOS	STANTON		KY
WJ5L	VICKSBURG		MS
W4BFB	CHARLOTTE		NC
WN3X	COINJOCK	131.8	NC
NC4AR	HIGH POINT	88.5	NC
WA4WPD	NASHVILLE	107.2	NC
W4GS	MYRTLE BEACH	85.4	SC
KU4ZS	PUMPKINTOWN	123.0	SC
W4AM	CHATTANOOGA	118.8	TN
KF4ZQA	ELIZTON/HOLS MT	100.0	TN
K4DXC	RIDGETOP	114.8	TN
WF4Q	SHILOH	107.2	TN
N4UTN	RUSTBURG		VA
WB8WV	GLENVILLE	91.5	WV
144.7100 / 145.3100			
W4FIZ	COLUMBUS	123.0	GA
KB4JF	NASHVILLE	141.3	GA
WA4JDR	STOCKBRIDGE		GA
KC4KZT	DAVID		KY
WB5GOJ	CHATAWA		MS
W4NGH	BAKERSVILLE		NC
N4LEX	#LEXINGTON	88.5	NC
K4ITL	ROSEBORO		NC
W4IAR	BEAUFORT		SC
W4CHR	CHESTER		SC
WA4PNI	ATHENS	141.3	TN
KF4SC	JACKSON		TN
KC4ECD	LAFAYETTE	151.4	TN
KD4KWP	CHESTERFIELD	127.3	VA
N8FCJ	BECKLEY/LAYLAND	100.0	WV
KB8TJH	SHIRLEY		WV
144.7300 / 145.3300			
KF4ODQ	EASTMAN	77.0	GA
WA4OGE	JONESBORO		GA
N4XGI	ST SIMONS ISLAND	131.8	GA
KF4INN	VERSAILLES		KY
K5DMC	KILN		MS
KI4RK	EMERALD ISLE	88.5	NC
KI4RK	GOLDSBORO	100.0	NC
N4VRD	MOUNT AIRY	100.0	NC
KF4JVI	TRYON		NC
WA4DFP	BAMBERG		SC
WT4E	COLLIERVILLE	107.2	TN
WD4DBJ	CUMBERLAND CITY		TN
WA4TEM	KNOXVILLE		TN
KE4ZBH	FARMVILLE		VA
W4VB	NORFOLK		VA
WR8M	WILLIAMSON	100.0	WV
144.7500 / 145.3500			
W4DOC	ATLANTA	146.2	GA
W4GTA	LOOKOUT MT	100.0	GA
KD4MFS	OCILLA		GA
AI4HB	RADCLIFF	173.8	KY
N4DRL	BYHALIA		MS
N5ZMZ	UTICA		MS
WA4AOS	CHARLOTTE		NC
WD4JPQ	GREENVILLE	131.8	NC
KE4OVN	GREENFIELD	107.2	TN
WD4JYD	NOLENSVILLE	114.8	TN
KB4PNG	ONEIDA	77.0	TN
N4AZJ	BLAND	103.5	VA
W4HCH	SOUTH BOSTON		VA
W8GK	CHARLESTON	91.5	WV
W8SP	FAIRMONT	103.5	WV
144.7700 / 145.3700			
AA4UA	AUGUSTA		GA
KB4IZF	JASPER	100.0	GA
W4BKM	MACON	88.5	GA
KE4YVD	RICHMOND	192.8	KY
K5IJX	HATTIESBURG	136.5	MS
N5PYQ	SOUTHAVEN	107.2	MS
W4HF	N. WILKESBORO	94.8	NC
K4PPD	SHALLOTTE	118.8	NC
K4ILT	HOLLY HILL	103.5	SC
KB4KIE	KNOXVILLE		TN
WR3S	NASHVILLE		TN
W4HZL	GLOUCESTER		VA
KC4RBA	LYNCHBURG	186.2	VA
WV8BD	BECKLEY/EOC		WV
K8VNQ	PARSONS	118.8	WV
144.7900 / 145.3900			
K4HYB	GRIFFIN/CENAR	88.5	GA
KC4KAN	BENTON	118.8	KY
N4EQT	LAWRENCEBURG	107.2	KY
KC8FKP	SO. PORTSMOUTH	136.5	KY
KB5KGE	JACKSON		MS
NC4UC	MONROE/UCARS	94.8	NC
WB4TQD	RALEIGH	82.5	NC
KG4BZN	WALTERBORO		SC
W4AM	CHATTANOOGA		TN
W4WC	GREENEVILLE		TN
KE4EUE	COLONIAL HEIGHTS		VA
W4POX	PORTSMOUTH	100.0	VA
K4ARO	ROANOKE/POOR MT	107.2	VA
AI4UK	#LENORE		WV
WD8EOM	WESTON		WV
144.8100 / 145.4100			
W4PME	ATLANTA/BELL	100.0	GA
K4KNS	AUGUSTA		GA
WA4MXO	JACKSON		KY
KK4CZ	LOUISVILLE	151.4	KY
N4XO	CHINA GROVE	136.5	NC
K4SER	WILLIAMSTON	131.8	NC
WA4USN	CHARLESTON		SC
N4VIH	DOVER	123.0	TN
K4MFD	GREENEVILLE	173.8	TN
K5FE	MEMPHIS	107.2	TN
NQ4Y	MONTEAGLE MTN	114.8	TN
KF4ADM	WILLIAMSBURG	127.3	VA
N8FHE	BUCKHANNON		WV
WV8AR	RED HOUSE	123.0	WV
W8IFL	UNION	100.0	WV
144.8300 / 145.4300			
K4LCI	ATLANTA		GA
WA9RNZ	JESUP	118.8	GA
AA4RI	MACON		GA
AC4RS	ELKTON	77.0	KY
KF4CBT	WINCHESTER	203.5	KY
KX5E	GLOSTER	136.5	MS
KU4W	RAEFORD	100.0	NC
K4QFQ	SPARTA/GREEN MT		NC
K4JR	SUMTER	156.7	SC
WF4Q	BROWNSVILLE	107.2	TN
WA4UCE	COOKEVILLE		TN
WB4YLC	KNOXVILLE		TN
AD4OV	COEBURN	103.5	VA
W4SQT	RICHMOND		VA
WB8YST	CHARLESTON	107.2	WV
K8LG	MORGANTOWN		WV
144.8500 / 145.4500			
W4BOC	DECATUR		GA
W6ZP	AUBURN	103.5	KY
WX5P	FULTON		MS
W5PPB	SHARON	77.0	MS
WR4AGC	DURHAM		NC
WD4LCF	GASTONIA		NC
K4GRW	#NEWPORT		NC
WD4EOG	CLEMSON UNIV		SC
W4ZKM	SAVANNAH RIVER	123.0	SC
K4SIR	BENTON		TN
WA4KOG	MEMPHIS		TN
KQ4E	MORRISTOWN		TN
KF4GHD	#MT PLEASANT	127.3	TN
KA4THY	ROANOKE	107.2	VA
AA4HQ	SALUDA		VA
N8LGY	MT. ZION	107.2	WV
WV8ED	WELCH		WV
144.8700 / 145.4700			
KD4HMH	BONAIRE		GA
KG4OGC	RICEBORO		GA
N4CLA	SWEAT MT/MARIETT		GA
WB4GGH	BARDSTWN/NELSN	151.4	KY
K4NLT	HUEYSVILLE	79.7	KY
KF4BRO	MAYSVILLE	107.2	KY
WB5VYH	#ABBEVILLE	107.2	MS
W4OIX	KINSTON	88.5	NC
W4NC	SAURATOWN MT	100.0	NC
WB4BLI	GAFFNEY	141.3	SC
KI4CB	MYR BCH/CONWAY		SC
WB4GBI	KNOXVILLE		TN
KF4RBR	MOUNTAIN CITY	103.5	TN
N4ARK	NASHVILLE		TN
N4ZCM	SOUTH HILL		VA
N8YHK	SUMMERSVILLE	100.0	WV
144.8900 / 145.4900			
W4DV	AUGUSTA		GA
KA4WUJ	CORDELE	103.5	GA
W4LMA	MARIETTA	88.5	GA
W4KVK	HENDERSON		KY
WB4CWF	LEXINGTON		KY
N5VGK	TUPELO		MS
NT4K	FRANKLIN		NC
WB4IKY	GIBSONVILLE	107.2	NC
KF4LUC	HICKORY	94.8	NC
W4BWC	RALEIGH	82.5	NC
W4APE	CHERAW		SC
WA4KOG	BRADEN		TN
WB4LHO	MCMINVL/SHT MT		TN
K4CQ	AMHERST	136.5	VA
W8MOP	BLUEFIELD		VA
WA4OHX	HAMPTON		VA
WV8G	PARKERSBURG		WV
146.9950 / 146.3950			
WB9SHH	#MONTECELLO	88.5	KY
146.0100 / 146.6100			
W4CVY	COLUMBUS		GA
WB4JEH	CONYERS	151.4	GA
WD4KWV	CORBIN		KY
KC4FRA	MADISONVILLE		KY
W5LAR	LAUREL		MS
W4EWN	NEW BERN	100.0	NC
WB4TOP	RALEIGH	131.8	NC
KF4QDS	THOMASVILLE	123.0	NC
KC4WIF	ELLOREE	118.8	SC
W4NYK	GRNVLE/CSRS HD		SC
W4AM	CHATTANOOGA		TN
WA4PCD	NASHVILLE		TN
K4JP	ABINGDN/BRMLY MT		VA
W4CAR	CHESAPEAKE		VA
W4WWQ	LYNCHBURG	136.5	VA
WB8MZI	GASSAWAY		WV
146.0250 / 146.6250			
W4ZT	ATL/UNION CITY	100.0	GA
N4UJT	ELBERTON		GA

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

K4HAO	VIDALIA		GA
K4ULW	PAYNEVILLE	151.4	KY
KC5ULN	COLUMBUS		MS
KE5WO	PORT GIBSON		MS
K4USB	BUXTON	131.8	NC
KI4RR	LAURINBURG		NC
KF4SXO	CHESTER		SC
WB4VXX	CORNERSVILLE	107.2	TN
WB4GBI	KNOXVILLE	100.0	TN
W4UTM	MARTIN	107.2	TN
K4SVA	JARRATT I-95	100.0	VA
WV8B	FLAT TOP/WINTRPL	100.0	WV
146.0400 / 146.6400			
WB4QGR	#ATLANTA		GA
W4FWD	CARROLLTON	131.8	GA
AE4PO	WAYCROSS	141.3	GA
WA4UXJ	CANE VALLEY		KY
K5XU	MADISON		MS
WB5NAY	MOOREVILLE		MS
WB4YAO	HENDERSONVILLE	91.5	NC
W4DW	RALEIGH		NC
W4NC	WINSTON-SALEM	100.0	NC
W4GL	SUMTER		SC
KA4QYI	HARRIMAN	100.0	TN
WB4KQQ	MEMPHIS		TN
AF4TZ	NASHVILLE	114.8	TN
W4WIC	FINCASTLE		VA
N4QLF	MARION	103.5	VA
WB4QEY	RICHMOND		VA
N8HZ	HUNTINGTON/CHAS		WV
146.0550 / 146.6550			
N4NFP	ATLANTA/MARIETTA	151.4	GA
W4WSM	BOWLING GREEN-SO		KY
WD4DZC	DANVILLE		KY
K4CUW	PADUCAH		KY
KC5ZZH	MERIDIAN		MS
K4CEB	CONCORD/KANNAP.		NC
WA4VTX	ELIZABETH CITY	131.8	NC
KD4KOJ	BEAUFORT		SC
N5CWH	LEESVILLE	162.2	SC
K4SHP	MYRTLE BEACH		SC
KI4BXI	BROWNSVILLE		TN
W4RDM	LAWRENCEBURG		TN
W4OLB	MARYVILLE/ALCOA		TN
WA4ISI	ALTAVISTA		VA
N8ZPX	FLATWOODS	123.0	WV
N8SNW	IAEGER	203.5	WV
146.0700 / 146.6700			
WR4LT	BONAIRE	123.0	GA
W4ABP	GAINESVILLE	131.8	GA
KF4SJO	HAZARD		KY
WA4FOB	LARUE	77.0	KY
W4KBL	PRINCETON		KY
W5UBG	NEW ALBANY		MS
KB5ZCX	PURVIS		MS
K4FHB	BURLINGTON		NC
K4OI	FOREST CITY	114.8	NC
AD4DN	WILMINGTON	88.5	NC
AD4U	ST. MATTHEWS	156.7	SC
W4UD	BRISTOL		TN
K4BGW	LAFOLLETTE		TN
AF4TZ	NASHVILLE	114.8	TN
W4CBM	DUBLIN		VA
KG4NJA	HAMPTON	173.8	VA
KD4DDI	PAGECO		VA
WD8JNU	RAVENSWOOD		WV
146.0850 / 146.6850			
K4NGA	ADAIRSVILLE	167.9	GA
WA4EPK	DARIEN		GA
K4KZY	FAYETTEVILLE		GA
KF4NTQ	GEORGETOWN	107.2	KY
N4WJS	OWENSBORO	110.9	KY
W5KHB	NATCHEZ	100.0	MS
W4NBR	GRIFTON	88.5	NC
W4SNC	STATESVILLE		NC
K4USC	UNION		SC
KF4ARH	WALLAND	88.5	TN
WA1ZMS	BEDFRD/APL ORCH	100.0	VA
N8FMD	CLARKSBURG	103.5	WV
WB8NAM	DANVILLE		WV
146.1000 / 146.7000			
W4MM	ALBANY		GA
K4UFO	JASPER		GA
KD4BWK	LAGRANGE	141.3	GA
WB4DOJ	MILLEDGEVILLE	67.0	GA
K4NLX	SAVANNAH	100	GA
KY4KY	BROOKS	151.4	KY
KD4DZE	GRAYSON	107.2	KY
KB5MPW	BAY ST. LOUIS		MS
W5LV	GRENADA		MS
W5FQ	MERIDIAN		MS
N4CID	DUNN		NC
W4PAX	#LANCASTER		SC
WT4F	PICKENS	107.2	SC
KF4BVQ	ANDERSON CTY	100.0	TN
WM4T	HOLSTON MOUNT	103.5	TN
W4UOT	MANCHESTER	114.8	TN
WB4MMI	RAMER	162.2	TN
WA4YGM	UNION CITY		TN
K4AU	DANVILE/WHT OAK	107.2	VA
KF8PT	NORFOLK		VA
KD4WWF	STAUNTON	131.8	VA
KC8AFH	BECKLEY	123.0	WV
146.1100 / 146.7100			
KF4FO	HOPKINSVILLE		KY
146.1150 / 146.7150			
K4NVG	LAVONIA	100.0	GA
W4ABZ	RINGGOLD	67.0	GA
KF4OFT	BEREA	100.0	KY
KY4HC	HAWESVILLE	136.5	KY
KA5TQY	GREENWOOD		MS
KD4JFN	HAW RIVER	107.2	NC
N4GGN	MILLERS CREEK	94.8	NC
WB4NEP	COLUMBIA		SC
KB4JUB	SALTILLO		TN
W9KIC	BLACKSBURG		VA
W4TTL	WALKERTON		VA
146.1300 / 146.7300			
W4MM	ALBANY		GA
KD4NC	ATLANTA/SWEAT MT		GA
K4TVE	BRUNSWICK		GA
WR4DH	MACON	100.0	GA
AC4AO	LEXINGTON		KY
AA4NI	#NEBO		KY
KC5IF	BILOXI		MS
KD5GVU	STARKVILLE	210.7	MS
KC5TGT	UTICA	77.0	MS
W4BWC	RALEIGH	82.5	NC
W4EXU	SALISBURY	94.8	NC
N4ILM	WILMINGTON		NC
K4NAB	N. AUGUSTA		SC
WA4UKX	SIMPSONVILLE	100.0	SC
WB4IOB	KNXVL/ENG MT		TN
KE4LFZ	MEMPHIS	107.2	TN
K4EHL	WATERTOWN	100.0	TN
W4QR	HAMPTON		VA
WB8SPW	LEWISBURG	100.0	WV
146.1450 / 146.7450			
KD4QHB	ATHENS		GA
K4WOC	CALHOUN	100.0	GA
AF4VH	SPRINGFIELD	97.4	GA
WA4TTC	GREENVILLE		KY
KD4RTR	MILLARD	141.3	KY
KC5VZI	#NEW ALBANY		MS
KC4QPR	MORGANTON	94.8	NC
N4WFU	ROANOKE RAPIDS	131.8	NC
W4PDE	DILLON/PEE DEE		SC
W4MV	DYERSBURG		TN
KC4WHL	HARRIMAN		TN
AA4YQ	WARTBURG		TN
K4ROA	ROANOKE/POOR MT	107.2	VA
146.1600 / 146.7600			
W4RRG	LOOKOUT MT.	67.0	GA
W4BOC	STONE MT	107.2	GA
WR4MG	UNADILLA	107.2	GA
KF4BJM	VALDOSTA	141.3	GA
K4KJQ	LEXINGTON		KY
K4CUW	PADUCAH		KY
W5AXQ	JACKSON		MS
WA4BVW	ASHVL/MT PISGAH		NC
K4GWH	GREENSBORO	156.7	NC
KB2XI	SWANSBORO		NC
WB4THL	WILSON	131.8	NC
K4ESG	CHARLESTON		SC
K4JP	BRSTL/HOLSTN MT		TN
WA4PCD	NASHVILLE	114.8	TN
WA4TFZ	CHARLOTTESVILLE	151.4	VA
KB4ZIN	WILLIAMSBURG		VA
W8VA	HUNTINGTON	131.8	WV
N4RAG	LEWISBURG	131.8	WV
W8CUL	MORGANTOWN		WV
W8ZQ	WHEELING		WV
146.1750 / 146.7750			
N4NEQ	MARIETTA	151.4	GA
KB4NA	WRENS		GA
KA4WZX	MIDDLESBORO		KY
KJ4OG	TOMPKINSVILLE		KY
AE4SK	VANCEBURG		KY
KD5YTB	CLEVELAND	107.2	MS
K5PN	HATTIESBURG	136.5	MS
W4ZU	HOLDEN BEACH	100.0	NC
KD4RAA	#RALEIGH	88.5	NC
KG4WAD	SALISBURY	94.8	NC
KF4GHC	FORT JACKSON	156.7	SC
WF4Q	JACKSON	107.2	TN
W4JVO	PULASKI/MUSIC MT		TN
AG4AN	FOREST	131.8	VA
WB3T	WYTHEVILLE	107.2	VA
KB8BWZ	ELKINS		WV
146.1900 / 146.7900			
KD4GEY	FOLKSTON		GA
WD4KOW	MOULTRIE		GA
K4SEX	NEWNAN		GA
K4VYX	SWAINSBORO		GA
AG4TY	HALLS GAP	79.9	KY
W4YWH	HIGHLAND HEIGHTS	123.0	KY
K5TYP	BILOXI		MS
W4TLP	CLINTON		NC
KG4ASL	SAURATOWN MT	107.2	NC
N4AW	ANDERSON/SAS MT		SC
WA4USN	CHARLESTON		SC
W4AM	CHATTANOOGA		TN
W4ABR	JOHNSON CITY		TN
W4KIB	MEMPHIS	107.2	TN
W4SQE	NASHVILLE	100.0	TN
N4SD	CHESAPEAKE		VA
NM8T	ANSTED	100.0	WV
146.2050 / 146.8050			
K4PDQ	MACON	77.0	GA
KA4NNE	GUTHRIE	100.0	KY
W8PRH	HAZARD		KY
KF5C	STARKVILLE	192.8	MS
K5IMT	#VICKSBURG		MS
K4GNC	GASTONIA/CRWDR		NC
W4DCG	ROCKY MOUNT	118.8	NC
KF4ATU	ORANGEBURG	156.7	SC
KF4TNP	CORNERSVILLE	114.8	TN
W4EYJ	CROSSVILLE	131.8	TN
WB4MMI	SELMER	107.2	TN
WA4HTI	COVINGTON		VA
W4TTL	MECHANICSVILLE		VA
147.4050 / 146.8050			
KC4AQS	JASPER	100.0	GA
W4DJB	CANTON		NC
KD4TC	BIG "A" MTN	103.5	VA
146.2200 / 146.8200			
W4MM	ALBANY	141.3	GA
W4DOC	ATLANTA	146.2	GA
K4HVK	KIBBEE		GA
KF4DKJ	DRAKESBORO		KY
W4CMR	IRVINE	192.8	KY
KA5LNY	MAGEE	100.0	MS
WB4PZA	WILKESBORO	94.8	NC
K4GMP	WILMINGTON	88.5	NC
KT4NZ	CAMDEN	131.8	SC
W4NYK	GRNVLE/PARIS MT		SC
WB4OAH	LAKE CITY		TN
W4BS	MEMPHIS		TN
KB4PNG	#ONEIDA		TN
W4UOT	WINCHESTER		TN
W4CAR	CHESAPEAKE	162.2	VA
N4WWB	GATE CITY		VA
WB8CQV	CHARLESTON	192.8	WV
K8VE	GRAFTON	103.5	WV
146.2350 / 146.8350			
KC4GSS	THOMSON		GA
KF4AWA	SALVISA	192.8	KY
WB4PLA	ASHEVILLE		NC
KB4TOH	COLUMBIA	131.8	NC
W4USH	WADESBORO		NC
KT4YW	CHARLESTON		SC
KB4YTM	HUNTINGDON		TN
W4LYR	WATERTOWN	100.0	TN
KK4EH	GRUNDY/BIG A MT		VA
W4GSF	KILMARNOCK	173.8	VA
N4UTN	RUSTBURG/LONG MT	173.8	VA
KC8ECX	COWEN	110.9	WV
147.4350 / 146.8350			
N4KHQ	DAHLONEGA	100.0	GA
W4KMU	#HOPE MILLS		NC
KB4BPV	THOMASVILLE	88.5	NC
146.2500 / 146.8500			
K4SDJ	SAVANNAH		GA
WA4ORT	WARNER ROBINS		GA
KM4IV	PIKEVILLE		KY
KD5QNC	BUDE	103.5	MS
WB5MFK	IUKA		MS
W5LWC	KOSCIUSKO		MS
K4CYP	GOLDSBORO		NC
WA4DSZ	HICKORY/BRT. MT		NC
N4IV	REIDSVILLE	103.5	NC
W4ULH	FLORENCE		SC
WA4KJH	GTLBG/COVE MTN	127.3	TN
WA4KOG	MEMPHIS		TN
W4AY	NASHVILLE	114.8	TN
W4POX	PORTSMOUTH		VA
WA4ZBP	STAUNTON	131.8	VA
WV8BD	BECKLEY/FLAT TOP		WV
N8ZAR	BUCKHANNON		WV
146.2650 / 146.8650			
N4ZON	JESUP	123.0	GA
WB4DKY	MADISON	179.9	GA
AD4MU	OWENSBORO		KY
KG4AEU	RICHMOND	192.8	KY
KD4HLH	LAURENS	107.2	SC
KF4VGX	LITTLE RIVER		SC
W8EYU	#CROSSVILLE	118.8	TN
KN4KP	TRENTON		TN
KG4VFO	NORTON	103.5	VA
147.4650 / 146.8650			
W5NRU	ELLISVILLE	136.5	MS
N4WCO	#MURPHY/STALCUP	151.4	NC
WA4ZRS	WAXHAW	94.8	NC
WZ8E	MOUNTAIN LAKE	110.9	VA
146.2800 / 146.8800			
W4CVY	COLUMBUS		GA
W4BTI	MARIETTA/ATLANTA	100.0	GA
WA4NKL	QUITMAN		GA
W4HBB	SAVANNAH		GA
W4PF	LOUISVILLE		KY
KA4UHL	SOMERSET	77.0	KY
K5QNE	JACKSON	100.0	MS
KE5SJ	PASCAGOULA		MS
WB4TQD	RALEIGH		NC
W4NYR	SHELBY		NC
N7GZT	ORANGEBURG		SC
WD4CYZ	BRISTOL		TN
WA4KOG	MEMPHIS		TN
WA4PCD	NASHVILLE		TN
W4SKH	OAK RIDGE		TN
W4RAT	RICHMOND	74.4	VA
WA4V	SALEM		VA
WB8CQV	SO. CHARLESTON	203.5	WV
146.2950 / 146.8950			
N4VNI	HARTWELL	100.0	GA
WR4MG	HAWKINSVILLE	107.2	GA
K4JBV	FLORENCE	100.0	KY
KA4BLZ	LYNN GROVE	210.7	KY
W4APE	PAGELAND		SC
KF4HNV	CROSSVILLE	118.8	TN
WD4EGD	DANDRIDGE		TN
K4TTC	HOWENWALD	100.0	TN
WA4KXV	VIRGINIA BEACH		VA
WB3T	WYTH/WALKER MT	103.5	VA
147.4950 / 146.8950			
WD4LUQ	DALLAS	77.0	GA
KC4KZT	DORTON	141.3	KY
W5NRU	ELLISVILLE	136.5	MS
KF4GUZ	#SPRUCE PINE		NC
146.3100 / 146.9100			
WB4HIG	CLEVELAND		GA
K4HYB	GRIFFIN/CENAR		GA
K4GFY	MOREHEAD	123.0	KY
KS4TO	WADDY	107.2	KY
K5VV	HERNANDO		MS
WA5JZL	LUCEDALE		MS
K5OCM	NATCHEZ	91.5	MS
WA4ZGQ	AHOSKIE	131.8	NC
W4MOE	ASHVL/SPIVEY MT	91.5	NC
K4MN	FAYVLLE/CFARS	100	NC
W4PAR	LEXINGTON	107.2	NC
WA4SJS	WHITE HALL	156.7	SC
KC4ROG	KNOXVILLE		TN
W4YXA	SHORT MTN		TN
KE4ZBH	FARMVILLE		VA
K4TUE	MT.LAKE/BALD KNB	107.2	VA
N8BQ	MCMECHEN		WV
146.3250 / 146.9250			
WA4ASI	COVINGTON		GA
N4PJR	JESUP	141.3	GA
W4BEJ	RADCLIFF		KY
WB5CON	CORINTH	107.2	MS
AD4T	DOBSON	100.0	NC
W4APE	BISHOPVILLE		SC
K4ORE	CLARKSVILLE	110.9	TN
W4GZX	CLEVELAND		TN
WD4OBW	JONESBOROUGH		TN
WA4TFZ	CHARLOTTESVILLE	151.4	VA
WB4GJG	DANVILLE(DCC)	88.5	VA
WD8OGY	PRINCETON/PIPEST		WV
146.3400 / 146.9400			
KT4N	AUGUSTA		GA
W4VO	ROME/MT. ALTO	88.5	GA
WA4RVB	WRIGHTSVILLE		GA
KG4DVE	ASHLAND		KY
KY4X	GLASGOW		KY
K4MSU	MURRAY	91.5	KY
KB5DWX	AMORY	192.8	MS
KA5SBK	JACKSON	100.0	MS
KD5QNC	MCCOMB		MS
K4CTY	BURGAW		NC
WA4IZG	BUTNER	156.7	NC
W4BFB	CHARLOTTE		NC
W4ACY	WANCHESE	131.8	NC
N7GZT	CHARLESTON		SC
W4IQQ	GREENVILLE	67.0	SC
WB4GBI	KNOXVILLE		TN
WA4KOG	OAKLAND		TN
W4ZA	RICHMOND		VA
N4AP	ROANOKE		VA
KD8AB	FENWICK		WV
W8CWO	WEIRTON		WV
146.3550 / 146.9550			
KD4AOZ	ATHENS	123.0	GA
W9QXW	BLAIRSVILLE	100.0	GA
WR4MG	PERRY	107.2	GA
KF4BRO	FLEMINGSBURG	107.2	KY
N5EKR	ELLISVILLE		MS
KC5OB	ISOLA		MS
KD4WAR	BURNSVILLE		NC
K4RNC	ROCKINGHAM		NC
KD4BMX	PINE RIDGE	162.2	SC
NT4L	#NASHVILLE	114.8	TN
WZ8E	BLUEFIELD/ONEIDA	100.0	VA
N4CFA	FARMVILLE	136.5	VA
K8VE	WEBSTER SPRINGS	123.0	WV
146.3700 / 146.9700			
K4CLJ	ATLANTA		GA
W4HBB	SAVANNAH		GA
K4DPP	#HENDERSON		KY
W8PRH	STANTON		KY
KI5FW	MERIDIAN	100.0	MS
N5PH	PASCAGOULA		MS
N5EYM	WINONA	110.9	MS
KD4BJD	BENSON		NC
N4AW	ANDERSON		SC
W4GEY	FLORENCE	167.9	SC
W4TRC	KNGSPT/BAYS MT		TN
WD4MWQ	MCMINNVILLE		TN
WA4RWK	MEDINA		TN
W4SKH	OAK RIDGE		TN
NC4BL	FANCY GAP	100.0	VA
W4WRN	STAUNTON		VA
WA4KXV	VIRGINIA BEACH		VA
KC8CPK	LOGAN/WRD RK MT	100.0	WV
N8NBL	PARKERSBURG (OH)		WV
146.3800 / 146.9800			
W4BEJ	ELIZABETHTOWN		KY
146.3850 / 146.9850			
K4KNS	AUGUSTA	100.0	GA
KC4ZGN	ELLIJAY/TALONA M	77.0	GA
KN4FE	WARM SPRINGS		GA
N4SEI	#JONATHAN CREEK		KY
N5LRQ	COLLINS	136.5	MS
KB5DMT	SENATOBIA	107.2	MS
K4OGB	ALBEMARLE	100.0	NC
K4JPE	DURHAM	156.7	NC
WD4PVE	MARION	118.8	NC
W1GRE	SUMMERVILLE	192.8	SC
KC4PRD	NASHVILLE		TN
KE4SCS	PETERSBURG	127.3	VA
W4CA	ROANOKE/POOR MT		VA
N8OLC	HUNTINGTON	131.8	WV
KF8LL	NEW MARTINSVILE		WV
146.4000 / 147.0000			
WA4NNO	ATLANTA		GA
K5UFH	CORINTH		MS
KE5TL	#VANCLEAVE		MS
N5DXM	WATER VALLEY		MS
WD4FVO	JACKSONVILLE		NC
KD4HTW	MARION	192.8	SC
WB4YXZ	PICKENS	151.4	SC
KD4CWB	#KNOXVILLE	100.0	TN
W4ZJM	MEMPHIS	*#	TN
W4LG	SUFFOLK	100.0	VA
W8XF	CHARLESTON	91.5	WV
147.6000 / 147.0000			
W4EEE	BOGART		GA
KE4LR	SHELBYVILLE		KY
KG4M	WILLIAMSBURG		KY
KC5ULN	COLUMBUS		MS
W5IQ	JACKSON		MS

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

WW4DC	THOMASVILLE	88.5	NC
W4CBX	BLOUNTVILLE		TN
AC4RS	CLARKSVILLE	167.9	TN
KA6UHV	COLLEGEDALE	131.8	TN
KD8ZR	TERRA ALTA		WV

146.4150 / 147.0150

K4AIS	WALESKA/PNLG MTN	100.0	GA
N4YSB	YADKINVILLE		NC
AB4M	LYNCHBURG	131.8	VA
K4AXO	NORTON/HIGH KNB	88.5	VA

147.6150 / 147.0150

K4EDN	BONAIRE	82.5	GA
KG4OGC	HINESVILLE		GA
AD4RT	IRVINE		KY
N5JHK	MONTICELLO		MS
NC4LC	LINCOLNTON	141.3	NC
W4BAD	RALEIGH	88.5	NC
W4GL	SUMTER	156.7	SC
AF4TZ	NASHVILLE		TN
KE4RX	RCKWD/MT ROSVLT		TN
WF4Q	UNION CITY	107.2	TN
AA8TH	RICHWOOD		WV

146.4300 / 147.0300

WV5D	LAUREL		MS
KU4OL	MOUNTAIN REST		SC
K4YTZ	ROCK HILL		SC
WA4JST	RICHMOND		VA

147.6300 / 147.0300

W4REI	ATLANTA/AIRPORT		GA
KD4ULE	HOPKINSVILLE	103.5	KY
W4PJZ	LOUISVILLE	151.4	KY
W5LDD	OCEAN SPRINGS		MS
KI4CGV	EDEN/REIDSVILLE	118.8	NC
KB4DJT	ROANOKE RAPIDS		NC
KK4BQ	BARNWELL	156.7	SC
N4JTH	#N. MYRTLE BEACH		SC
W4BV	FAYETTEVILLE		TN
W4EM	MEMPHIS		TN
KQ4E	MORRISTOWN		TN
KC8IT	MULLENS		WV
WB8ECC	ST.MARYS/BENS RG		WV

146.4450 / 147.0450

K4AIH	ANDRWS/ROBNSVL	151.4	NC

147.6450 / 147.0450

KE4ZRT	DOUGLAS	141.3	GA
KD4AOZ	WATKINSVILLE	123.0	GA
KJ4VF	GRETHEL	100.0	KY
KE4OOS	PARIS	141.3	KY
KB5LCL	MORTON	141.3	MS
W4NHV	LUMBERTON		NC
K4ILT	ST. GEORGE	103.5	SC
AF4O	BOLIVAR		TN
N2UP	LIVINGSTON		TN
K4AYN	NASHVILLE		TN
KE4CKJ	STAUNTON/EL.KB	131.8	VA
WA4SBC	VIRGINIA BEACH		VA

146.4600 / 147.0600

W4CQ	CHARLOTTE		NC
KG4FZR	ATHENS	141.3	TN
KF4AGO	SOUTH BOSTON		VA
KA8PNC	PRINCETON		WV

147.6600 / 147.0600

WA4DDI	MACON		GA
N4CLA	ROSWELL		GA
W4UCJ	THOMASVILLE		GA
K4LOL	BOWLING GREEN	156.7	KY
W4NJA	PADUCAH	103.5	KY
N5OCF	RICHTON		MS
KB4BR	MACO		NC
W4VFR	SUMTER/SHAW		SC
N4FV	GREENEVILLE	186.2	TN
WA4MQQ	MEMPHIS		TN
N4VFB	SHELBYVILLE		TN
WB4VWR	ENON	107.2	VA
N8ZAR	BUCKHANNON	123.0	WV

147.6700 / 147.0700

N4MRM	#LOUISVILLE	151.4	KY

146.4750 / 147.0750

KK4MW	CARBO		VA
NM8T	OAK HILL	100.0	WV

147.6750 / 147.0750

W4CLA	CLAXTON		GA
W4GR	LAWRENCEVILLE	82.5	GA
N4TLP	OWINGSVILLE		KY
NC5Y	JACKSON		MS
K4CCR	NEWTON	88.5	NC
KD4JFN	PITTSBORO	146.2	NC
KT4BU	EASTOVER	156.7	SC
WQ4E	GREENBRIER	107.2	TN
WB4GBI	KNOXVILLE		TN
WF4Q	MCNAIRY	107.2	TN
AD4ZK	NORFOLK		VA
W4PNT	WAYNESBORO		VA
KE8MR	MORGANTOWN	103.5	WV

147.6900 / 147.0900

KE4RWR	BAINBRIDGE		GA
KC4YHM	EATONTON	179.9	GA
K2YRW	YOUNG HARRIS		GA
N4MWA	PHELPS		KY
KB5DSN	AMORY		MS
N5MRS	NEW HEBRON		MS
WB5FXH	#SUMNER		MS
W4GDF	GREENVL/ESTN NC		NC
KI4DH	STAR/BISCOE	100.0	NC
K4SHP	MYR BCH/AYNOR		SC
KF4ATU	ORANGEBURG	156.7	SC
K4JLA	PAULINE		SC
AG4UW	CENTERVILLE	123.0	TN
K4NLP	JAMESTOWN	100.0	TN
W4GMM	MEMPHIS	107.2	TN
W4BRC	GALAX/BRIRP MT		VA
N4TZE	GOOCHLAND		VA
N4RAG	MARLINTON	131.8	WV

147.7050 / 147.1050

WB4RTH	ATLANTA CARES	107.2	GA
KF4DG	PEMBROKE		GA
N4EQT	FRANKFORT	107.2	KY
WA4ZAC	HARLAN		KY
W5SAR	WAYNESBORO		MS
WA4KNI	HENDERSONVILLE		NC
K4ITL	LILLINGTON	82.5	NC
KG4FAN	CASSATT	192.8	SC
KD4NEC	CLEVELAND		TN
K4TC	HENDERSON		TN
W4LYR	LEBANON	100.0	TN
WB4JBJ	BEDFORD		VA
KB4ZIN	WILLIAMSBURG		VA
KA8AUW	SPENCER	100.0	WV

147.7200 / 147.1200

W4CMA	CEDARTOWN		GA
K4HCA	CLARKESVILLE		GA
KT4N	#LINCOLNTON		GA
KA4KMT	#LOUISVILLE		KY
KD4DVI	PADUCAH	179.9	KY
WB4ASZ	WINCHESTER		KY
NO5N	ACKERMAN		MS
N4GAS	GASTONIA/SPCR MT		NC
WN4Z	ROCKY MOUNT	131.8	NC
W4GS	MYRTLE BEACH		SC
W4GGM	COLUMBIA	127.3	TN
N4WAH	MEMPHIS	107.2	TN
K4EAJ	OAK RIDGE	82.5	TN
WG8S	PATRICK SPRINGS	107.2	VA
WB8DKM	BRIDGEPORT		WV
WB8NAM	MADISON		WV

147.7350 / 147.1350

N4BZJ	DALTON	118.8	GA
WR4SG	LAKE PARK	141.3	GA
KE4UWJ	MILLEDGEVILLE	123.0	GA
KF4CME	BARBOURVILLE	100.0	KY
KE4SZK	FRANKLIN	136.5	KY
KF4WMM	SANDY HOOK	107.2	KY
KB5UIX	VOSSBURG	136.5	MS
K4HXZ	BREVARD		NC
K4ITL	CHAPEL HILL	82.5	NC
WA4US	WILMINGTON	67.0	NC
K4CCC	CHESTERFIELD		SC
KG4BZN	WALTERBORO		SC
K4WWV	ALAMO		TN
N4AZJ	PEARISBURG	100.0	VA
KC4VDZ	RICHMOND	107.2	VA
KE8MR	DAVIS	103.5	WV
KC8TLG	ROCKPORT	123.0	WV

147.7500 / 147.1500

WA4EHO	CEDAR GROVE		GA
WB4GQX	CUMMING		GA
WA4IDS	SAVANNAH		GA
KD4YGK	LEBANON JCT.	79.7	KY
KI5WI	BOONEVILLE		MS
KF5IZ	PEARL/RANKIN CO	88.5	MS
K4VLY	MORGANTON		NC
K4ITL	ROANOKE RAPIDS	82.5	NC
WD4NUN	MONCKS CORNER		SC
WA4PCD	NASHVILLE WEST	114.8	TN
K4EAJ	OAK RIDGE	82.5	TN
KB4RFN	CLINCHCO	88.5	VA
NJ1K	PATRICK SPRINGS	107.2	VA
KB8YDG	RICHWOOD	100.0	WV

147.7650 / 147.1650

KE4ZRT	DOUGLAS	141.3	GA
KF4XH	#MACON		GA
N4OME	MADRAS	131.8	GA
N4NEQ	MORGANTON	151.4	GA
W4WSM	BOWLING GREEN		KY
WA4HBM	LEXINGTON		KY
WB4UBY	PRESTONSBURG		KY
W4UA	HIGH POINT		NC
KD4PBK	LUMBERTON	88.5	NC
W4GWD	GREENWOOD	107.2	SC
KF4BRS	ERWIN/UNICOI		TN
KC4YLL	PARIS	114.8	TN
WA4CEX	PURYEAR		TN
KR4BT	SPARTA/WHITE	123.0	TN
KE4VNN	LYNCHBURG	141.3	VA
W4CM	NEWPORT NEWS		VA
KA8TCF	WESTON		WV

147.7800 / 147.1800

N4BMA	AUGUSTA		GA
WD4NHW	BALDWIN		GA
WB4BDP	WARNER ROBINS	107.2	GA
KE4ZJT	LONDON	151.4	KY
W4CN	LOUISVILLE	88.5	KY
KC5LIO	WEST POINT		MS
WA1YYN	EFLAND	156.7	NC
AC4RC	WILMINGTON	88.5	NC
W4DXA	FORT MILL		SC
W4HNK	#SUMMERVILLE	123.0	SC
WD4DES	CLEVELAND	118.8	TN
WA4KOG	MEMPHIS		TN
K4ZGA	NASHVILLE	114.8	TN
KB4YKV	AMELIA COURTHSE		VA
WD4ITN	MONTEREY	100.0	VA
N4NRV	PKS KB/PULASKI	103.5	VA
WD8OHX	LEON		WV

147.7950 / 147.1950

K4JPD	#AUSTELL	85.4	GA
W4UCJ	BOSTON		GA
KT4SH	CADIZ	103.5	KY
KJ4VF	LEXINGTON		KY
KJ4VF	WINCHESTER	100.0	KY
KC5YUX	SILVER CREEK	136.5	MS
N4NIN	#LENOIR		NC
KO4CW	RALEIGH	88.5	NC
W4APE	FLORENCE		SC
KC4FV	ARNOLD A.F.B.		TN
KD4CWB	#KNOXVILLE	100.0	TN
AF4OQ	SARDIS	94.8	TN
WA4RTS	LYNCHBURG	136.5	VA
WT4RA	SMITHFIELD	100.0	VA
NV8H	LOGAN SOUTH	100.0	WV

146.6100 / 147.2100

KC4NSE	#POWHATAN		VA

147.8100 / 147.2100

KI4DZY	BLAIRSVILLE	100.0	GA
KF4GHF	CONYERS	162.2	GA
K4NLX	SAVANNAH		GA
KM4M	BLACK MTN	103.5	KY
K4HY	OWENSBORO	110.9	KY
N5SPJ	UNION	100.0	MS
W4BUZ	GREENSBORO		NC
W4SLH	ORIENTAL	151.4	NC
W4NTQ	WHITEVILLE		NC
K4AVU	LITTLE MT.		SC
W4HPL	COOKEVILLE		TN
WF4Q	JACKSON	107.2	TN
KB8NJH	AMBER RIDGE	107.2	WV
N8FMD	CLARKSBURG	103.5	WV

147.8250 / 147.2250

W8JI	BARNESVILLE		GA
NE4GA	COMMERCE	123.0	GA
KG4ABK	DOERUN		GA
W4RLP	SUMMERVILLE	100.0	GA
KY4SP	LITCHFIELD	179.9	KY
W5BJT	#FRENCH CAMP		MS
KD5VMV	HERNANDO	107.2	MS
WB4SRV	CLAREMONT	162.2	NC
WR4AGC	HILLSBOROUGH		NC
W4DTW	SANTEE		SC
W4DTW	ST. GEORGE		SC
NO4Q	MCEWEN	114.8	TN
WB4OAH	MORRISTOWN		TN
KA4VXR	HAMPTON	136.5	VA
WB8NRK	PRINCETON	114.8	WV

147.8400 / 147.2400

AE4JO	EMERSON	103.5	GA
WB4NFG	IRWINTON	77.0	GA
KC4QK	ASHLAND	107.2	KY
W4GZ	FARMINGTON	91.5	KY
KC4AI	FRANKFORT	100.0	KY
KF4TLT	HYDEN	186.2	KY
W5PPB	PELAHATCHIE	77.0	MS
N5ELS	TUPELO		MS
NC4ML	CARTHAGE		NC
KG4JIA	CHERRY MTN	94.8	NC
W4GHZ	FRANKLIN	151.4	NC
W4IAR	HILTON HEAD		SC
AC4VT	LANCASTER	88.5	SC
KD4TMW	MYRTLE BEACH	85.4	SC
W4LKZ	GALLATIN	114.8	TN
KD4ZTK	BOYDTON		VA
N4MGQ	ELK CRK/IRON MT	107.2	VA
AB8WB	GASSAWAY	123.0	WV

147.8550 / 147.2550

KR4NQ	SNELLVILLE	107.2	GA
AE4PO	WAYCROSS	141.3	GA
N4IOX	#DIXON		KY
K4CO	HIGHLAND HTS.	123.0	KY
KC5RC	LAUREL		MS
WA4KNI	HENDSVL/PENIC		NC
K4ITL	LEVEL CROSS	82.5	NC
W4RRC	LEESVILLE	123.0	SC
AG4UW	CENTERVILLE	123.0	TN
KJ4SI	PETROS/FRZ HD MT		TN
K4BW	ACCOMAC	156.7	VA
WD4CYZ	#CLINCHCO		VA
KC8CNL	HINTON	100.0	WV
WC8EC	PARKERSBURG		WV

147.8700 / 147.2700

KF4ZUR	ALLENHURST	162.2	GA
W4VIR	AMERICUS	141.3	GA
KF4GHF	MONROE	162.2	GA
WB4EJK	LOUISVILLE	151.4	KY
KE4AIE	ST. CHARLES		KY
WB5USN	ABERDEEN	210.7	MS
K5ZRO	VICKSBURG	100.0	MS
W4CQ	CHARLOTTE		NC
AK4H	RALEIGH/BENSON		NC
N4SM	WAYNESVILLE		NC
W4ANK	CHARLESTON AREA		SC
WA4JRJ	SENECA/LONG MT		SC
WD4BKY	GALLATIN	114.8	TN
WB0TMC	JACKSON		TN
KE4FH	JOHNSON CITY		TN
WB4IKL	GUM SPRING		VA
KB4QWO	ROANOKE/POOR MT		VA
WV8AR	SCOTT DEPOT	123.0	WV

147.8850 / 147.2850

W4PVW	ASHBURN/TIFTON	141.3	GA
KC4ZIZ	ATLANTA		GA
KC4WWU	KINGSLAND	118.8	GA
KC4ZFH	LONDON		KY
KA4FGA	MARION		KY
N5LRL	CLEVELAND	107.2	MS
N5LJC	COLUMBIA		MS
K5WHB	CORINTH		MS
W4RCW	TRYON		NC
N4ADM	AIKEN		SC
N4LV	MYB BCH/BRKSVIL		SC
KF4JPT	PIKEVILLE		TN
KF4KVG	MARTINSVILLE	107.2	VA
KA4ZIP	WARSAW		VA
W8LG	PINEVILLE		WV
N8HON	SPRUCE KNOB		WV

147.9000 / 147.3000

N4ALE	COLBERT	123.0	GA
WB4YSV	ROME		GA
WR4MG	WARNER ROBINS	107.2	GA
K4ICN	ALLEN	123.0	KY
WA4SJH	SPRINGFIELD		KY
KA5LNY	MAGEE		MS
W4YSB	JEFFERSON	103.5	NC
N4JEX	KANNAPOLIS	136.5	NC
W4MZP	#RED SPRINGS		NC
KE4HHR	CHARLESTON	103.5	SC
W4CAT	GALLATIN	114.8	TN
W4BBB	KNOXVILLE/RACK	100.0	TN
WA4ADT	MEMPHIS	107.2	TN
W4LG	FRANKLIN	131.8	VA
KI4ZR	LEXINGTON		VA
WB8NSL	HARISVL/PENSBRO	107.2	WV

147.9150 / 147.3150

AD4EQ	DOUGLAS	141.3	GA
W4STJ	FORSYTH	88.5	GA
W4LJM	#HODGENVILLE		KY
KC4VXR	SALEM		KY
KD5MIS	HATTIESBURG	136.5	MS
N5DWU	WAYNESBORO		MS
KF4HFQ	ROLESVILLE	88.5	NC
K4MPJ	SAURATOWN MT	100.0	NC
K4PPD	SHALLOTTE	118.8	NC
K4JLA	SPARTANBURG		SC
KD4HZN	ROGERSVILLE	114.8	TN
N4ARK	SPARTA	123.0	TN
KE4VQM	TELLICO PLAINS	141.3	TN
K4HWQ	GRUNDY		VA

147.9300 / 147.3300

W4MAZ	COCHRAN	77.0	GA
WB4BXO	LAGRANGE		GA
K4NLX	SAVANNAH	100.0	GA
N4MTN	TOCCOA		GA
WA8KWH	ASHLAND		KY
KA4CFW	BOWLING GREEN		KY
W4JTL	MT. STERLING	103.5	KY
N4IUI	#PROVIDENCE		KY
N5EPP	PHILADELPHIA		MS
WA4FLR	FAYETTEVILLE		NC
KN4K	LENOIR/HIBRITN	141.3	NC
KF4GHC	COLUMBIA	156.7	SC
WD4ORB	MORGAN COUNTY	82.5	TN
WD4RBJ	PULASKI	100.0	TN
KI4ZR	LEXNGTN/ROCK MT.		VA

147.9450 / 147.3450

N4NEQ	ATLANTA/MARIETTA	151.4	GA
N4PJR	JESUP/SCREVEN	141.3	GA
WD4JZH	LEBANON	151.4	KY
N5PS	GREENVILLE	107.2	MS
N5ZMZ	UTICA		MS
WA4HXW	MADISON	103.5	NC
W4NYR	SHELBY		NC
KF4DTL	SYLVA	151.4	NC
WA4TEP	WASHINGTON		NC
W4ANK	CHARLESTON		SC
K4BBN	CROSS PLAINS		TN
K4PHT	DAYTON		TN
NM4L	ABINGDON	103.5	VA
KC4KMY	EASTVILLE	156.7	VA
W3RUA	FRANKLIN		WV
KB8QXP	LOGAN/SUMERCO	100.0	WV

147.9600 / 147.3600

W4SCR	DOUGLASVILLE	88.5	GA
WA4HZX	DUBLIN		GA
KQ9Z	LOUISVILLE		KY
W5CJR	HATTIESBURG		MS
KC5QGC	LOUISVILLE		MS
K5SVC	NATCHEZ	100.0	MS
WA4J	BOONE/RICH MTN	103.5	NC
WD4LDB	DURHAM	136.5	NC
W4PET	LUMBERTON		NC
N4EOY	COLUMBIA		SC
KA4OAK	LAFOLLETTE		TN
W4BS	MEMPHIS	107.2	TN
AF4TZ	NASHVILLE		TN
K4KLX	PARIS		TN
KA4CBB	CHESTERFIELD		VA
KB4OLM	STUARTS DRAFT		VA
N8FWL	BECKLEY	123.0	WV
WV8TC	MIDDLEBOURNE	110.9	WV
K7SOB	SKYLINE	127.3	WV

147.9750 / 147.3750

K4TQU	ATHENS/CRAWFRD	127.3	GA
KB4VAK	LAFAYETTE	77.0	GA
K4XYZ	BUCKHORN LAKE	103.5	KY
K4CO	WALTON	123.0	KY
KA5VFU	GULFPORT		MS
KD4EAD	BETHEL	151.4	NC
KD4WAR	BURNSVILLE		NC
K4GWH	GRAHAM	114.8	NC
KI4CB	GEORGETOWN		SC
K4LEO	#GREENWOOD		SC
KF4CAU	#DICKSON		TN
W4NRV	PEARISBURG	100.0	VA
WD8LNB	GRAFTON	118.8	WV

147.9800 / 147.3800

WB5NAY	PONTOTOC		MS

147.9900 / 147.3900

KE4SNT	#BLACK ROCK MT		GA
W4CJB	PEMBROKE		GA
W4OHH	THOMASTON	131.8	GA
N4INT	#ARTEMUS	107.2	KY
WR8CRA	COVINGTON	123.0	KY
KY4OC	CRESTWOOD	151.4	KY
N8QCW	LOUISA	127.3	KY
KC5QHP	FOREST	100.0	MS
WB4IUY	CLAYTON	88.5	NC
WA4QBG	EDEN/STONEVILLE		NC
WA4CHZ	LOCUST	100.0	NC
K4PPD	#SHALLOTTE	88.5	NC
N4DTR	WAYNESVILLE		NC

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

KA4FEC	LEXINGTON		SC
KF4L	CLARKSVILLE	123.0	TN
K4DPD	DAYTON/RHEA CTY		TN
KQ4E	#MORRISTOWN		TN
WA4BJY	OAKFIELD		TN
KF4TNP	#RICHLAND	167.9	TN
K4ARO	PETERSBURG		VA
N8RCG	KEYSER	123.0	WV
WV8D	LEWISBURG	100.0	WV
WD8CYV	PARKERSBURG	141.3	WV

220 MHZ

222.1800 / 223.7800			
WD8OHX	#LEON		WV
222.3000 / 223.9000			
WB4SJV	HERMITAGE		TN
222.3400 / 223.9400			
KC4QK	ASHLAND		KY
N4GSM	ROBBINSVILLE		NC
W4ZJM	MEMPHIS	*#	TN
222.3600 / 223.9600			
WR3S	SMITHVILLE		TN
222.3800 / 223.9800			
W4CAT	GALLATIN	107.2	TN
222.4200 / 224.0200			
WB4JEH	#CONYERS		GA
222.4600 / 224.0600			
W4NYR	SHELBY		NC
222.5000 / 224.1000			
K4SWS	EATONTON	179.9	GA
KA4UHL	NANCY	100.0	KY
KF4TNP	LEWISBURG		TN
WB4YHD	FAIRFAX		VA
N4CH	ROANOKE		VA
222.5200 / 224.1200			
N4NFP	ATLANTA/MARIETTA	151.4	GA
WM4MD	MIDDLESBORO	82.5	KY
K4ITL	CHAPEL HILL		NC
W4GL	SUMTER		SC
WV8B	FLAT TOP/WINTRPL	100.0	WV
222.5400 / 224.1400			
KD4ALC	WALESKA		GA
WR4BEG	SOPHIS/RANDLEMAN		NC
WB4QHF	PICKENS/CSRS HD	131.8	SC
KB4PNG	ONEIDA		TN
N4HRV	CHARLOTTESVILLE	88.5	VA
N8FWL	LEWISBURG	123.0	WV
WR8M	WILLIAMSON		WV
222.5600 / 224.1600			
KC4JNN	BISKEY MTN	100.0	GA
KN4K	LENOIR/HIBRITN		NC
K4ITL	RALEIGH		NC
N7GZT	COLUMBIA		SC
WR3S	NASHVILLE		TN
KF4VED	BLUEMTN		VA
222.5800 / 224.1800			
N4YDX	DALLAS		GA
N7GZT	ORANGEBURG		SC
KB8FPK	ERWIN		TN
WA1ZMS	BEDFRD/APL ORCH	100.0	VA
222.6000 / 224.2000			
KC4OVY	#ATLANTA-NE	100.0	GA
WA4US	WILMINGTON		NC
W4ILY	GREENVILLE		SC
W4CBX	BLOUNTVILLE		TN
W4JAS	HAMPDEN-SYDNEY		VA
222.6200 / 224.2200			
KB0Y	RAY CITY	141.3	GA
AD4CR	VERSAILLES		KY
NF4C	ROCKY MOUNT		NC
KB4FZK	KNXVL/CROSS MT	100.0	TN
KO4BN	SPRINGFIELD		TN
N3HXT	WINCHESTER		VA
KC8LRN	HILLSBORO	131.8	WV
222.6400 / 224.2400			
N4YYD	FT MT/CHATSWTH	71.9	GA
WA4KNI	HENDSVL/BERWLW		NC
KE4QOX	KVILLE/HIPOINT	107.2	NC
N8FWL	BECKLEY	123.0	WV
222.6600 / 224.2600			
KE4QFG	MARIETTA	110.9	GA
K4NLT	GARRETT	79.7	KY
WA4BVW	ASHVL/MT PISGAH		NC
WR4AGC	HILLSBOROUGH		NC
N4PYI	SHORT MTN.	114.8	TN
222.6800 / 224.2800			
N4MNA	CONLEY		GA
AC4RZ	PICKENS		SC
KA4OAK	LAFOLLETTE		TN
AB4M	LYNCHBURG		VA
222.7000 / 224.3000			
KB4TIW	VILLA RICA	131.8	GA
KA4MKT	LOUISVILLE		KY
N4AI	SOMERSET		KY
WA4WRS	BARIUM SPRINGS		NC
KE4CKJ	STAUNTON/EL KNOB	131.8	VA
222.7200 / 224.3200			
N4MTA	ACWORTH/ATL	123.0	GA
KA4SQN	JACKSONVILLE		NC
W4IT	PICKENS/SASFR MT		SC
KK4US	CLEVELAND		TN
223.7200 / 224.3200			
K4TDO	LYNCH		KY
222.7400 / 224.3400			
W4DOC	ATLANTA	146.2	GA
WW4DC	THOMASVILLE	88.5	NC
WB4GBI	KNOXVILLE		TN
KM4OI	TYSONS CORNER		VA
N8FWL	BECKLEY/OAK HILL	123.0	WV
222.7600 / 224.3600			
N4BZJ	DALTON		GA
WB4PAC	GRIMESLAND		NC
KF4ZDS	MARSHALL		NC
WR3S	LAVERGNE		TN
KE4JSV	LURAY		VA
WB8YST	CHARLESTON	107.2	WV
222.7800 / 224.3800			
N4RBT	DAHLONEGA	100.0	GA
WR4AMS	META		KY
N4OQJ	KNOXVILLE	100.0	TN
WS4W	RIDGEWAY		VA
222.8000 / 224.4000			
KC4AQS	JASPER	100.0	GA
W4BFB	CHARLOTTE		NC
WB4QHF	PICKENS	131.8	SC
KB4YGI	COLLIERVILLE		TN
N4RBB	MORRISTOWN		TN
W8COX	SUTTON	123.0	WV
222.8200 / 224.4200			
KD4AOZ	WATKINSVILLE	123.0	GA
AC4AO	LEXINGTON		KY
N4PJX	CLARKESVILLE	123.0	TN
W4BS	MEMPHIS		TN
WD4GSM	NORTON/HIGH KNB		VA
WG8S	PATRICK SPRINGS	103.5	VA
WD4KHP	BELL KNOB		VA
222.8400 / 224.4400			
N4NEQ	ATLANTA/MARIETTA	151.4	GA
WB4GUG	GREENSBORO	107.2	NC
KN4CW	WEST SPRINGS		SC
KC4TFQ	#NASHVILLE		TN
N2FUV	SEVIERVILLE		TN
N8FWL	BLUEFIELD	123.0	VA
222.8600 / 224.4600			
N4BZJ	DALTON	118.8	GA
KB0Y	VALDOSTA	141.3	GA
K4XYZ	BUCKHORN LAKE	103.5	KY
KC4ZTJ	SHELBY		NC
WR3S	NASHVILLE		TN
222.8800 / 224.4800			
KC4FWC	LOCUST		NC
K4ZGA	NASHVILLE		TN
KD4HZN	ROGERSVILLE		TN
KC8LRN	CRAIGSVILLE	91.5	WV
222.9000 / 224.5000			
N4MTA	ACWORTH/ATL	123.0	GA
N4DRL	BYHALIA		MS
AD4DN	WILMINGTON	88.5	NC
KG4JIA	GAFFNEY	123.0	SC
W4BBB	KNOXVILLE/RACK	100.0	TN
K4RCA	MARTINSVILLE		VA
222.9200 / 224.5200			
K4AIS	PINE LOG MTN		GA
WR4AMS	DORTON		KY
KD4CJG	ASHEVILLE	91.5	NC
N7GZT	LITTLE MTN		SC
222.9400 / 224.5400			
N4YEA	DALLAS		GA
WA4BVW	MT MITCHELL		NC
N8ITF	SPRINGFIELD		TN
WB4PVT	HAMPTON	100.0	VA
N8FWL	BECKLEY - WEST	123.0	WV
222.9600 / 224.5600			
W4RRG	LOOKOUT MT		GA
KD4RXF	LANCASTER		KY
N5CWH	LEESVILLE	162.2	SC
AC4JF	NEWPORT	100.0	TN
K4YW	WYTHEVILLE	77.0	VA
KC8CSE	GREENBANK	123.0	WV
222.9800 / 224.5800			
NX9O	ALPHARETTA	100.0	GA
WB4F	PIKEVILLE		KY
KR4AA	ROCKY MOUNT		NC
KB4VFD	CROSS		SC
N4KFI	KNOXVILLE	103.5	TN
223.0000 / 224.6000			
W4UWH	JASPER	100.0	GA
WB4PLA	ASHEVILLE		NC
KC4KUL	#BIG PHOENIX MTN	100.0	NC
KD4TZZ	MURFREESBORO	123.0	TN
W4LG	LAKE GASTON		VA
223.0200 / 224.6200			
W4PME	ATLANTA/BELL	100.0	GA
KD4DAR	PIKEVILLE		KY
KC4IRA	GASTONIA	127.3	NC
KD4JFN	HAW RIVER	107.2	NC
W4UWH	GATLINBURG		TN
W4GSF	GLOUCESTER		VA
223.0400 / 224.6400			
W4RRG	LOOKOUT MT.		GA
KG4JIA	CHERRY MTN	71.9	NC
W4RNC	RALEIGH		NC
N7GZT	COLUMBIA		SC
KC4RGQ	MORRISTOWN		TN
N8FWL	HINTON/BECKLEY	123.0	WV
223.0600 / 224.6600			
NP2Y	YOUNG HARRIS	100.0	GA
KE4RQL	BIG KNB/MARS HIL	100.0	NC
WA1YYN	EFLAND	107.2	NC
W4VFR	SUMTER/SHAW		SC
WR3S	NASHVILLE		TN
223.0800 / 224.6800			
N4BZJ	DALTON		GA
KJ4VF	STANVILLE	100.0	KY
WB4KPF	WILMINGTON		NC
KA4RCL	WAYNESBORO	131.8	VA
223.1000 / 224.7000			
W4TIY	DALLAS		GA
WB9SZL	CLEMMONS	100.0	NC
KM4TC	DUNCAN	88.5	NC
KD4VUW	GALLATIN		TN
KD4IBW	SEVIERVILLE	100.0	TN
K4ARO	PETERSBURG		VA
WS8L	CHARLESTON	123.0	WV
223.1200 / 224.7200			
W4UWH	CLAYTON		GA
WR4AMS	PRESTONSBURG		KY
WA4DAN	TRENTON		NC
K4MFD	GREENEVILLE	173.8	TN
KC8LRN	SLATY FORK	91.5	WV
223.1400 / 224.7400			
N4KVC	DALTON		GA
KD4WAR	BURNSVILLE		NC
N4PYI	NASHVILLE	100.0	TN
KC4JGC	NORFOLK	100.0	VA
N8FWL	BECKLEY - SOUTH	123.0	WV
223.1600 / 224.7600			
W4BOC	DECATUR		GA
KJ4VF	MOREHEAD	100.0	KY
KB7BTU	PLYMOUTH	131.8	NC
W4EXU	SALISBURY		NC
WQ4E	GREENBRIER		TN
K4PCK	KNOXVILLE		TN
WR3S	S. PITTSBURG		TN
WA4TFZ	CHARLOTTESVILLE		VA
223.1800 / 224.7800			
KC4KLW	CEDARTOWN	179.9	GA
WD9HIK	HOPKINSVILLE	179.9	KY
WB5OWY	VICKSBURG		MS
N4IV	EDEN	103.5	NC
KO4BR	ORANGEBURG		SC
K4VCM	CHATTANOOGA		TN
KE4FH	JC/BUFFALO MT		TN
WA4KOG	MEMPHIS		TN
W4IY	WOODBRIDGE		VA
223.2000 / 224.8000			
WZ4SC	FORT MILL		SC
WQ4E	GREENBRIAR		TN
KD4IBW	SEVIERVILLE		TN
KC8LRN	LEWISBURG	131.8	WV
223.2200 / 224.8200			
KK4C	ATLANTA	77.0	GA
WR4MG	HAWKINSVILLE	107.2	GA
WR4AMS	HAZARD		KY
N4DWU	CANTON		NC
KF4IXK	KERNERSVILLE	107.2	NC
223.2400 / 224.8400			
W4TL	GAINESVILLE	203.5	GA
WR4MG	WARNER ROBINS		GA
WA4NC	BANNER ELK		NC
WA4DAN	GRIFTON		NC
KC4WGH	JOYNER	88.5	TN
KC4PRD	NASHVILLE		TN
N4PLV	BEDFORD		VA
N8FWL	ANSTED	123.0	WV
223.2600 / 224.8600			
KC4JNN	ALPHARETTA	100.0	GA
K4NOC	BISHOPVILLE		SC
KQ4Q	PEARISBURG	107.2	VA
223.2800 / 224.8800			
WD4LUQ	YORKVILLE	77.0	GA
N4AI	SOMERSET		KY
N4DRL	WARSAW		MS
K4AIH	ANDRWS/ROBINSVL		NC
W4JYV	CARY	88.5	NC
K4DQ	FANCY GAP	100.0	VA
223.3000 / 224.9000			
W4LMA	MARIETTA		GA
N4EQT	LAWRENCEBURG	107.2	KY
N4EOY	COLUMBIA		SC
W4WC	GREENEVILLE	100.0	TN
WD9JGI	SWEETWATER	127.3	TN
AA4HQ	DELTAVILLE		VA
K4YDG	ROANOKE/TINKER		VA
223.3200 / 224.9200			
W4CSX	SNELLVILLE	100.0	GA
W4NYK	GRNVL/DOWNTWN	88.5	SC
W4RRG	CLEVELAND		TN
WA8O	BLUEFIELD		VA
223.3400 / 224.9400			
WB4KXO	AUGUSTA		GA
K4AIS	WALESKA/PNLG		GA
AD4RT	IRVINE		KY
N4JJ	FLORENCE		SC
WB4NKM	GREENEVILLE		TN
WA4PCD	NASHVILLE		TN
N2EDE	ROANOKE	107.2	VA
223.3600 / 224.9600			
K4RFL	ATLANTA/MARIETTA	100.0	GA
KC4ZTJ	CHERRYVILLE		NC
N4QVI	GREENSBORO		NC
N4UQS	HENDERSONVILLE		NC
WR3S	SE NASHVILLE		TN
223.3800 / 224.9800			
WR4AMS	LONDON		KY
W4LG	CHESAPEAKE		VA

440 MHZ

426.0500 / 420.0500			
K4CQ	LYNCHBURG	136.5	VA
434.0000 / 421.2500			
W4ZTL	ATLANTA/BELL		GA
K4NLX	SAVANNAH		GA
WD4ATV	JOHNSON CITY/BUF		TN
WA4GSS	HUNTINGTON		WV
KB8QHO	WHEELING		WV
439.2500 / 421.2500			
W4BEJ	ELIZABETHTOWN		KY
N4GUP	LEXINGTON		SC
WZ4O	SUMTER		SC
N4XND	GLOUCESTER		VA
W4HTB	BOWLING GREEN		KY
KA5NOJ	GAUTIER		MS
N3XA	WAYNESBORO		VA
WA4VHP	SAVANNAH		GA
438.7750 / 433.0750			
WA3KOK	CHESTERFIELD		VA
438.8000 / 433.2000			
WD4ICX	FANCY GAP		VA
446.2500 / 441.2500			
NQ4Y	MONTEAGLE MT.		TN
446.3500 / 441.3500			
KD4DXR	#WALESKA		GA
WA4USN	KNIGHTSVILLE		SC
446.4500 / 441.4500			
WA4USN	MT. PLEASANT		SC
446.5250 / 441.5250			
N4KJU	PAINTSVILLE	127.3	KY
KG4AQH	GREELEYVILLE		SC
446.6000 / 441.6000			
WA4AYB	RICHMOND		VA
446.6250 / 441.6250			
W4ERT	TAYLORSVILLE	123.0	NC
446.7000 / 441.7000			
N4JNE	POPS PEAK		VA
446.7750 / 441.7750			
K4IJ	ROANOKE		VA
446.8000 / 441.8000			
KC4YNF	ACWORTH	77.0	GA
AF4MI	PEMBROKE	123.0	GA
AD4CC	UNION	179.9	KY
446.8250 / 441.8250			
KA4MLK	ROME	100.0	GA
446.8500 / 441.8500			
KC4YVV	DALTON	100.0	GA
KF4QLF	GRIFFIN		GA
KY4JD	FORT WRIGHT		KY
446.8750 / 441.8750			
W4LAW	DALTON	100.0	GA
K4NRC	NEWNAN	156.7	GA
KF4BJO	GAFFNEY	123.0	SC
WB4TWX	SIX MILE	100.0	SC
KD4TZZ	MURFREESBORO	107.2	TN
446.9000 / 441.9000			
WB4GQX	CUMMING	141.3	GA
N2QJI	ZIRCONIA	94.8	NC
AG4VT	PACOLET	100.0	SC
446.9250 / 441.9250			
W4CSX	DALLAS	162.2	GA
446.9500 / 441.9500			
KE4OKD	SANDY SPRINGS	156.7	GA
K4TUE	NEWPORT	107.2	VA
446.9750 / 441.9750			
WB4ULK	COLUMBUS		GA
NE4GA	COMMERCE	123.0	GA
KG4BTN	GREENSBORO	162.2	NC
447.0000 / 442.0000			
WB6RTH	ALPHARETTA	107.2	GA
AF4UL	MACON	100.0	GA
N4ORL	LOUISVILLE		KY
N4HAJ	KINSTON	88.5	NC
AI4M	GAFFNEY	114.8	SC
K4TTC	HOHENWALD		TN
K4BTL	MARYVILLE		TN
W4LG	GASBURG		VA
WB3T	WYTHE/WALKER MT	103.5	VA
447.0250 / 442.0250			
W4CML	ATLANTA	127.3	GA
KD4KMK	YADKINVILLE	100.0	NC
WJ9J	CHATTANOOGA		TN
447.0500 / 442.0500			
N1KDO	MARIETTA	107.2	GA
KD4ADJ	LEXINGTON		KY
WA1YYN	EFLAND	107.2	NC
KD4XV	JASPER	127.3	TN
WB4SQC	#JOHNSON CITY	100.0	TN
WA4BJY	MEDINA		TN
447.0250 / 442.0750			
W8BLA	ROSWELL		GA
447.0750 / 442.0750			
N4VOS	STANTON		KY
KD4PBS	APEX	114.8	NC
K4JLA	COLUMBUS	103.5	NC
N4JDW	WILMINGTON	88.5	NC
KJ4BJ	DAYTON		TN
KA4BNI	LEXINGTON	107.2	TN
KF4UCI	CHARLOTTESVILLE	151.4	VA
447.1000 / 442.1000			
K4HUM	NORCROSS	100.0	GA
N4RBL	LOUISVILLE AREA		KY
K4USC	UNION		SC
KF4TNP	LEWISBURG	107.2	TN
KG4FZS	MADISONVILLE	141.3	TN
WD4PAX	MILAN		TN
KQ4CI	#ASHBURN		VA
447.1250 / 442.1250			
W4ZT	ATL/UNION CITY	100.0	GA
KD4GRU	BLUERIDGE	146.2	GA
KG4IWI	HENDERSON	88.5	NC
WT4IX	NEWEL	156.7	NC
WT4F	PICKENS		SC
KB4YFV	HILLSVILLE	103.5	VA
447.1500 / 442.1500			
KD4RTR	DORTON	167.9	KY
W4UNC	CHAPEL HILL	131.8	NC
N4SJW	CHARLESTON		SC
WJ9J	CHATTANOOGA		TN
KA4BNI	DRESDEN	107.2	TN
WD4RBJ	PULASKI	118.8	TN
KA4CBB	CHESTERFIELD		VA
447.1750 / 442.1750			
N4BZJ	DALTON	118.8	GA
K4NGQ	FRANKFORT	67.0	KY
KC4UBR	LINVILLE	136.5	NC
KE4GYN	ROXBORO	156.7	NC
WA4US	WILMINGTON		NC
KU4ZS	SPARTANBURG	123.0	SC
W4GMM	MEMPHIS	107.2	TN
W4VSP	WYTHEVILLE	103.5	VA
447.2000 / 442.2000			
KF4SKT	BLAIRSVILLE		GA
N3APR	DECATUR		GA

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

AA5SG	ELLISVILLE	167.9	MS
WA4US	WILMINGTON		NC
N7GZT	COLUMBIA	162.2	SC
WM4T	GRAY	100.0	TN
WA4BJY	OAKFIELD		TN
N4IFC	LYNCHBURG/T.ROW	103.5	VA
447.2250 / 442.2250			
WB5EGI	ATLANTA	100.0	GA
WJ9J	RCKWOOD/OZONE		TN
NO4Q	WAVERLY	110.9	TN
447.2500 / 442.2500			
K4HAC	MADRAS	141.3	GA
AA5SG	ELLISVILLE	136.5	MS
KB4PQA	GREENVILLE		SC
WD4DES	CLEVELAND	118.8	TN
WA4PGI	COVINGTON	100.0	VA
447.2750 / 442.2750			
K4DDH	MACON	100.0	GA
N4ZCM	AUBURN		NC
KO0NTZ	LEXINGTON	146.2	NC
KF4CFO	ETOWAH	141.3	TN
KE4PFW	HENDERSON		TN
K8VKB	RICHWOOD	123.0	WV
447.3000 / 442.3000			
KW4KW	RINGGOLD	118.8	GA
WW4T	STATHAM		GA
KC4QPR	MORG/WALKER TOP	94.8	NC
KC4ED	SUMMERVILLE		SC
WA4UCE	COOKEVILLE	107.2	TN
KC4VDZ	RICHMOND	114.8	VA
447.3250 / 442.3250			
W4JLG	MABLETON		GA
WM4MD	MIDDLESBORO	67.0	KY
K2IMO	ELM CITY	88.5	NC
KB4GHT	HILLSVILLE	103.5	VA
447.3500 / 442.3500			
WD4NHW	BALDWIN		GA
KG4PTO	COLLEGE PARK	OT	GA
KE4SZK	RUSSELLVILLE	136.5	KY
KF5TU	LAKE GASTON	100.H	NC
WA4YGD	LINCOLNTON		NC
KE4VNN	LYNCHBURG	136.5	VA
447.3750 / 442.3750			
KE4QFG	MARIETTA		GA
KE4YRE	SHELBYVILLE		KY
WA4PXV	HICKORY		NC
KG4CEO	CUMBERLAND FU	107.2	TN
447.4000 / 442.4000			
W2SJB	DULUTH	100.0	GA
N4UER	WARM SPRINGS		GA
KF4JJD	GARRETT	79.7	KY
AA4XV	LATONIA		KY
WB4QHF	PICKENS/CSRS HD	127.3	SC
KA4BNI	HORNBEAK	107.2	TN
KF4YI	LYNCHBG/JACK MT.	107.2	VA
447.4250 / 442.4250			
K4SWS	EATONTON		GA
WK4E	KENNESAW		GA
KC4FIE	MADISONVILLE		KY
K4AE	#LEXINGTON	107.2	NC
WD4CWY	NEWBERRY	91.5	SC
AF4ZJ	CHAT/WALDEN		TN
KA4BNI	JACKSON	107.2	TN
447.4500 / 442.4500			
W4CML	SNELLVILLE		GA
KD4CLR	LOUISVILLE AREA	151.4	KY
WA4TOG	HENDERSONVILLE		NC
N4LMR	RALEIGH		NC
KD4NED	CLEVELAND	88.5	TN
W8MOP	BLUEFIELD		VA
WA3KOK	CHESTERFIELD	107.2	VA
447.4750 / 442.4750			
K4NVG	LAVONIA	203.5	GA
W1MED	MARLOW	114.8	GA
W4RRG	ROSSVILLE	100.0	GA
KE4DGP	WILKESBORO	107.2	NC
AG4AN	FOREST		VA
W8CH	CHAPMANVILLE	123.0	WV
W8CH	CHAPMANVILLE	123.0	WV
447.5000 / 442.5000			
W4PSZ	PEACHTREE CITY	77.0	GA
KE4PMP	VIDALIA	88.5	GA
KB4RYM	LOUISVILLE		KY
K4GFY	MOREHEAD		KY
KG4JIA	CHERRY MTN	94.8	NC
K4YNY	WILMINGTON	88.5	NC
WB4HAP	KNOXVILLE	103.5	TN
K1YJ	NASHVILLE	107.2	TN
W4CA	ROANOKE/POOR MT		VA
447.5250 / 442.5250			
N4XQM	ATLANTA	110.9	GA
KY4JD	FORT WRIGHT	123.0	KY
N2QJI	CONCORD	94.8	NC
WB3T	WYTHEVILLE	103.5	VA
447.5500 / 442.5500			
WB4JEH	CONYERS	151.4	GA
WD4ELX	LOUISVILLE		KY
WA4TOG	ASHEVILLE		NC
K1BUD	PITTSBORO		NC
K4EZK	TELLICO PLAINS	141.3	TN
W4RAT	RICHMOND	74.4	VA
447.5750 / 442.5750			
WA4BPY	CUMMING	79.9	GA
AE4LW	MADISONVILLE	100.0	KY
W4MLU	RALEIGH		NC
KU4RT	HENDERSON		TN
NU5O	MEMPHIS	77.0	TN
WB4IVB	JONESVILLE	100.0	VA
447.6000 / 442.6000			
KD4FOC	DUBLIN	77.0	GA
WA4OKJ	MARIETTA	100.0	GA
KD4ADJ	MT STERLING		KY
WD4NWV	ANDRWS/ROBINSVL	151.4	NC
WA4PXV	VALDESE		NC
N8ITF	SPRINGFIELD		TN
K4ARO	PETERSBURG		VA
K4ARO	ROANOKE		VA
447.6250 / 442.6250			
K4VJM	CLEVELAND	100.0	GA
W4YMT	HARLAN	100.0	KY
KE4KIV	NEWTON		NC
WB4EPG	MEMPHIS		TN
447.6500 / 442.6500			
KE4FHN	DANIELSVILLE		GA
W4RRG	LOOKOUT MT	100.0	GA
KD4GEU	ASHEVILLE		NC
N4IBM	CHARLOTTE	88.5	NC
WA1ZMS	BEDFRD/APL ORCH	100.0	VA
447.6750 / 442.6750			
KE4PVE	ATLANTA	100.0	GA
KD4BOH	ROCKPORT	77.0	KY
KA2NAX	MORAVIAN FALLS	88.5	NC
W4ATC	RALEIGH	100.0	NC
WA4MPZ	BLUFFTON	100.0	SC
W4RRG	CLEVELAND	100.0	TN
KA4BNI	CONCORD	107.2	TN
447.7000 / 442.7000			
KC4ZGN	ELLIJAY	77.0	GA
W4MAZ	MACON	97.4	GA
K4NLX	SAVANNAH		GA
KC4YOT	GASTONIA	100.0	NC
N4FV	GREENVILLE		TN
WA4PZN	SHELBYVILLE		TN
W7CP	ROANOKE		VA
447.7250 / 442.7250			
KE4QFG	MARIETTA/ATL		GA
KB4YJ	LOUISVILLE	151.4	KY
N5LRQ	VOSSBURG	167.9	MS
AA4LB	SIMPSONVILLE	100.0	SC
W4RDM	COLUMBIA		TN
KE4MBR	DECATUR	141.3	TN
KF4RMT	BASSETT	107.2	VA
KB8PCW	GILBERT		WV
447.7500 / 442.7500			
N3DAB	JASPER	141.3	GA
KD4HEY	ABBEVILLE	162.2	SC
KE4SWV	CASTALIAN SPRING	123.0	TN
KN4E	ELIZABETHTON	88.5	TN
WD4KZK	ROANOKE/MILL MT	107.2	VA
447.7750 / 442.7750			
KB4TIW	VILLA RICA	131.8	GA
KC4FIE	MADISONVILLE		KY
KI4ASR	ARCHDALE	127.3	NC
KG4LWG	GASTONIA	123.0	NC
KF4CDR	CHARLESTON		SC
AE4PZ	MOUNTAIN REST	127.3	SC
N4GMT	ARLINGTON	107.2	TN
KE4CIF	PULASKI		VA
447.8000 / 442.8000			
N4NFP	ATL/MARIETTA		GA
N4AAD	YADKINVILLE	100.0	NC
WD4LUR	LAKE CITY	100.0	TN
KA4BNI	SELMER	107.2	TN
KB4MIC	GUM SPRING		VA
447.8250 / 442.8250			
W1CP	CLAYTON	162.2	GA
KC4ENL	HAPEVILLE	167.9	GA
K4ITL	LEVEL CROSS	82.5	NC
WF4G	MEMPHIS		TN
KT4PN	ONEIDA		TN
447.8500 / 442.8500			
WB4HJG	LAWRENCEVILLE	82.5	GA
AG4AZ	BREVARD		NC
KA4IXK	ROANOKE/POOR MT		VA
WB8NSL	PENNSBORO	103.5	WV
447.8750 / 442.8750			
K4RFL	ATLANTA/MARIETTA	100.0	GA
W4MAZ	COCHRAN	77.0	GA
W4GSO	GREENSBORO	88.5	NC
KC4WHL	HARRIMAN	136.5	TN
KF4OCK	LORETTO	203.5	TN
447.9000 / 442.9000			
KF4RLZ	LAWRENCEVILLE	123.0	GA
WR4MG	WARNER ROBINS		GA
W4CMR	IRVINE		KY
WW4DC	THOMASVILLE	88.5	NC
N4WT	CHATT/HIXSON		TN
KA1FFO	CLARKSVILLE	110.9	TN
KE4CES	JACKSON	114.8	TN
W4MT	NEWPORT NEWS	100.0	VA
447.9250 / 442.9250			
WB4RL	LITHIA SPRINGS	100.0	GA
K4CH	LEXINGTON	107.2	NC
N5YKR	LEXINGTON	123.0	TN
WD4OAR	WHITE OAK MT	100.0	TN
KB8QKM	CHARLESTON	71.9	WV
447.9500 / 442.9500			
AA4AI	ATHENS	179.9	GA
N4XGI	ST SIMONS ISLAND	131.8	GA
W4ERT	TAYLORSVILLE	151.4	NC
KB9EBA	LENOIR CITY		TN
KC4YLL	PARIS	123.0	TN
AB4FU	LYNCHBURG		VA
W4VB	NORFOLK	131.8	VA
447.9750 / 442.9750			
WA4YNZ	ATLANTA		GA
AG4TY	WAYNESBURG		KY
KF4DAR	KERNERSVILLE	107.2	NC
NK4W	LITTLE MT	162.2	SC
KB8KSP	ABINGDON	100.0	VA
448.0000 / 443.0000			
W4DXX	BAINBRIDGE	100.0	GA
W4DRC	CHATSWORTH		GA
KE4ZRT	DOUGLAS	141.3	GA
KT4GB	BARDSTOWN		KY
KD4DVI	PADUCAH	179.9	KY
KI4RK	GOLDSBORO	100.0	NC
AG4GW	CHERAW	123.0	SC
KW4LS	LEBANON	100.0	TN
W4ZJM	MEMPHIS	*#	TN
KM4X	WHITETOP MT	103.5	VA
N8HZ	HUNTINGTON		WV
448.0250 / 443.0250			
W4CML	ATLANTA	127.3	GA
WA4RVB	WRIGHTSVILLE	156.7	GA
KE4OOL	LEXINGTON	123.0	KY
WB4IKY	GIBSONVILLE	107.2	NC
N4UAG	KNOXVILLE		TN
KA8YEZ	WHEELING	77.0H	WV
448.0500 / 443.0500			
N1IP	SNELLVILLE		GA
W1WBT	SAURATOWN MTN	136.5	NC
N8FWL	BECKLEY	123.0	WV
448.0750 / 443.0750			
WA4EOC	CANTON	107.2	GA
WX4EMA	MACON	156.7	GA
WR4BEG	SOPHIA/RANDLEMAN		NC
KA4AZQ	KNOXVILLE	100.0	TN
KC8SDN	FLATWOODS	123.0	WV
448.1000 / 443.1000			
N4KHQ	DAHLONEGA	100	GA
N4WJS	OWENSBORO	110.9	KY
KE4QOX	SAURATOWN MT	88.5	NC
KI4D	ROCK HILL	162.2	SC
KF4TNP	BRICK CHURCH	167.9	TN
KA4JXT	MEMPHIS	107.2	TN
KN4YM	POWHATAN		VA
KE4QOX	BECKLY/OAK HILL	107.2	WV
448.1250 / 443.1250			
KG4PUW	STOCKBRIDGE	100.0	GA
KU4ML	FOSTER		KY
KB4PQA	CRAB CREEK TWP		NC
WA4NNA	RALEIGH		NC
KT4OL	CHATTANOOGA		TN
KT4OL	CHATTANOOGA		TN
KC4PRD	GOODLETTSVILLE	107.2	TN
KA4JXT	HICKORY VALLEY	107.2	TN
KA4JXT	MEMPHIS		TN
WB3T	MARION	103.5	VA
448.1500 / 443.1500			
KF4XH	BYRON		GA
W4PME	ROSWELL/BELL	100.0	GA
KD4PBC	MIDDLESBORO	146.2	KY
W4HG	SALISBURY	136.5	NC
KD4PBC	GATLINBURG	146.2	TN
KD4PBC	TRI-CITIES	146.2	TN
K8MHR	ST. ALBANS		WV
448.1750 / 443.1750			
K4AIS	CARTERSVILLE	100.0	GA
KC4COV	FLORENCE	131.8	KY
KD4HLH	LAURENS	146.2	SC
KG4GCZ	MT PLEASANT	107.2	TN
WG8S	PATRICK SPRINGS		VA
448.2000 / 443.2000			
K4YC	MCINTYRE	77.0	GA
KD4APP	PINE LOG MT	103.5	GA
KC4FWC	#STANFIELD	77.0	NC
KC4WDI	YOUNGSVILLE	88.5	NC
W4WC	GREENEVILLE	100.0	TN
W4BS	MEMPHIS	107.2	TN
KB4YKV	AMELIA		VA
448.2250 / 443.2250			
WA4DIW	JONESBORO		GA
KD4TAH	FRANKLIN		KY
KS4TO	WADDY		KY
W8EMX	HUNTERSVILLE	110.9	NC
N4ZCM	RALEIGH		NC
W8LG	BECKLEY/BOLT		WV
448.2500 / 443.2500			
KC4JNN	BISKEY MTN	100.0	GA
KJ4VF	DORTON		KY
KJ4VF	MOREHEAD	100.0	KY
N4JEX	CHINA GROVE	136.5	NC
448.2750 / 443.2750			
KC4KLW	ROCKMART	179.9	GA
KF4TLA	ASHEVILLE	103.5	NC
WA4WTX	ROUGEMNT/RED MT	100.0	NC
WA4AWI	LEBANON	107.2	TN
448.3000 / 443.3000			
WW4GA	ATHENS		GA
KA4ZTY	LINDALE	100.0	GA
KB5DZJ	WIGGINS	167.9	MS
KB4TOH	COLUMBIA	131.8	NC
AI4M	FOREST CITY	114.8	NC
KA7UEC	COLLIERVILLE	107.2	TN
WA4KJH	GATLBG/COVE MT	127.3	TN
WS8L	CHARLESTON	123.0	WV
448.3250 / 443.3250			
N4JMD	STOCKBRIDGE		GA
WA4CMO	FRANKFORT		KY
KF4IXK	KERNERSVILLE	131.8	NC
KG4KIJ	SWEETWATER		TN
WB3T	DISMAL PEAK	103.5	VA
448.3500 / 443.3500			
N4YYD	FT. MT/CHATSWTH	71.9	GA
K4ULW	LOUISVILLE SW		KY
W5CJR	PETAL		MS
N4JEX	KANNAPOLIS	136.5	NC
W4IQQ	GRNVLE/PARIS MT		SC
WA4AWI	DEASON	107.2	TN
K4GX	ROGERSVILLE		TN
N8LHL	ROCKPORT	123.0	WV
448.3750 / 443.3750			
KC4AQS	JASPER	100.0	GA
W1IFL	RALEIGH		NC
W4RCT	INDEPENDENCE	103.5	VA
KC8SDN	RICHWOOD	123.0	WV
448.4000 / 443.4000			
WB4GWA	CONCORD	118.8	GA
N1IB	CUMMING	107.2	GA
K4XYZ	BUCKHORN LAKE	103.5	KY
N0SU	BRYSON CITY	151.4	NC
AD4DN	WILMINGTON	88.5	NC
AC4WW	AIKEN	107.2	SC
WA4QWW	MEMPHIS		TN
448.4250 / 443.4250			
KD4CPO	BRUNSWICK		GA
AE4JO	EMERSON	103.5	GA
KB4MDE	JASPER		GA
KD4RTR	MILLARD		KY
WA1YYN	RES. TRIANGLE PK.	156.7	NC
448.4500 / 443.4500			
WC4RAV	COBB COUNTY	103.7	GA
KB4VAK	HIGH PT/LOOKT MT	77.0	GA
AE4NU	COX'S CREEK	151.4	KY
KZ4G	FLATWOODS	107.2	KY
KC5LCW	GAUTIER	123.0	MS
N5WXD	WEST POINT		MS
N4VOZ	STATESVILLE		NC
AC4RZ	HICKORY TAVERN	162.2	SC
KE4PJW	NASHVILLE	107.2	TN
KC4RBA	LYNCHBURG	186.2	VA
448.4750 / 443.4750			
W4EEE	BOGART		GA
WB4QOJ	DALLAS	77.0	GA
KC4COV	BEAVERLICK	131.8	KY
KE4UIU	CANTON	156.7	NC
W4UNC	CHAPEL HILL	131.8	NC
WZ4SC	FORT MILL		SC
KB8YDD	RICHWOOD		WV
448.5000 / 443.5000			
N4MTA	MARIETTA		GA
WD9EQC	LOUISVILLE		KY
KF4BRO	MAYSVILLE	123.0	KY
WB4UBY	META		KY
W5SAR	WAYNESBORO		MS
AB4JJ	WEST JEFFERSON	107.2	NC
N5CWH	LEESVILLE	162.2	SC
KD4CWB	KNOXVILLE		TN
448.5250 / 443.5250			
N4PQR	KNOXVILLE	114.8	GA
KC4KLW	ROME	179.9	GA
KD4EVB	BURLINGTON	107.2	KY
N4EUX	LENOIR/CAJAH MT		NC
KD4MJO	SOUTH HILL	100.0	VA
448.5500 / 443.5500			
KK4IN	DACULA		GA
KE4WLP	GRIFFIN		GA
N4HZX	GRAEFENBURG		KY
W5SAR	WAYNESBORO		MS
KC4XE	WILKESBORO	94.8	NC
WB4LRD	CHATTANOOGA		TN
448.5750 / 443.5750			
KD4NTF	CEDARTOWN	107.2	GA
NU5O	SOUTHAVEN	77.0	MS
WA4PXV	AIR BELLOWS GAP		NC
KA6UHV	COLLEGEDALE	131.8	TN
W4LYR	LEBANON	100.0	TN
KC8AUY	RICHWOOD		WV
448.6000 / 443.6000			
KA5WZY	ATLANTA	146.7	GA
KA4UHL	NANCY	100.0	KY
K4EG	BURLINGTON	123.0	NC
N4DWU	MT MITCHELL	114.8	NC
W4TLB	BIG SANDY	114.8	TN
KC8PFI	KENOVA	162.2	WV
448.6250 / 443.6250			
K4MDS	GRAY		GA
KF4OYP	JASPER	100.0	GA
KF4NTQ	GEORGETOWN		KY
AA5RZ	JACKSON, EAST		MS
W4EUS	RES. TRIANGLE PK.		NC
KE4EAN	COWPENS	136.5	SC
KA7UEC	COLLIERVILLE	107.2	TN
AD4QG	EVA		TN
KC4MJN	JAMESTOWN	100.0	TN
WZ8E	BLUEFIELD	100.0	WV
KC8SDN	RICHWOOD	123.0	WV
448.6500 / 443.6500			
W4CML	ATLANTA	123.7	GA
N4WJS	OWENSBORO	110.9	KY
W5NRU	LAUREL	100.0	MS
K4AIH	ANDRWS/ROBINSVL		NC
KD4WAR	BURNSVILLE		NC
KG4BTN	GREENSBORO	88.5	NC
WA4AXH	NOLENSVILLE		TN
KG4NJA	HAMPTON	173.8	VA
KC8SDN	CRAIGSVILLE	123.0	WV
448.6750 / 443.6750			
N4GWO	BARNESVILLE		GA
K4WOC	CALHOUN	100.0	GA
KD4FRP	CROWDER'S MT		NC
AD4LR	PARIS		TN
KD4IBW	SEVIERVILLE	100.0	TN
K4YD	BENT MT	107.2	VA
448.7000 / 443.7000			
W4TIY	DALLAS		GA
KY4KY	BROOKS	151.4	KY
K5PN	HATTIESBURG	136.5	MS
N5WDG	RIDGELAND	77.0	MS
KE4QOX	KVILLE/H POINT	103.5	NC
WA4LBT	LOCUST		NC
N4JEH	NASHVILLE	107.2	NC
K4VVM	BARTLETT	107.2	TN
AG4VW	CENTERVILLE	100.0	TN
KB4OTK	LAFOLLETTE		TN
KB8UJG	PRINCETON	123.0	WV
448.7250 / 443.7250			
KB2DZA	CONYERS	77.0	GA
KE5LT	PICAYUNE	179.9	MS
K4GWH	GRAHAM	156.7	NC
KC4KPJ	CLOVER	127.3	SC

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

W1ARN	NASHVILLE	107.2	TN
KG4KIJ	SWEETWATER		TN
N8SNY	WELCH		WV
448.7500 / 443.7500			
K4GO	COVINGTON	146.2	GA
KF4BMG	#MARIETTA	79.7	GA
KK4WH	WHITESBURG	107.2	KY
KC4ZTI	GASTONIA/CRWDR		NC
K4WWV	ALAMO		TN
WA4OHX	HAMPTON	100.0	VA
KC3FB	PATRICK SPRINGS	77.0	VA
448.7750 / 443.7750			
N4YF	SUGAR HILL	82.5	GA
KF4INN	VERSAILLES		KY
WB4SRV	CLAREMONT	118.8	NC
KD4JFN	HAW RIVER	107.2	NC
KF4Y	LAURENS	141.3	SC
KA4MHJ	SPENCER	123.0	TN
448.8000 / 443.8000			
N4NFP	ATLANTA/MARIETTA	151.4	GA
K4MSU	MURRAY	91.5	KY
N5IAT	NATCHEZ		MS
KC4QZL	MORGANTON		NC
W4HNK	MT PLEASANT	123.0	SC
KA4AZQ	KNOXVILLE	100.0	TN
KG4NRC	NASHVILLE	123.0	TN
WA1ZMS	BEDFRD/APL ORCH	100.0	VA
W4POX	PORTSMOUTH		VA
KA8OTX	OAK HILL		WV
448.8250 / 443.8250			
KD4HPD	STONE MTN	123.0	GA
KD4EVB	FALMOUTH	107.2	KY
K4AVY	PRESTONSBURG	127.3	KY
N5ZNS	GLOSTER		MS
KC4FWC	#LAURINBURG	77.0	NC
KI4BMD	JACKSON	114.8	TN
KI4BMD	JACKSON	114.8	TN
KC4KRM	SHELBYVILLE		TN
KF4RMT	MARTINSVILLE	107.2	VA
WB4KZI	PETERSBURG		VA
448.8500 / 443.8500			
K4PLM	#WALESKA	192.8	GA
KC4YOZ	DALLAS CHLT	100.0	NC
WA4US	WILMINGTON		NC
N4ULM	FRANKLIN		TN
KE4OVN	LANEVIEW	107.2	TN
KQ4I	DANVILLE		VA
KB8TGK	HUNTINGTON	88.5	WV
448.8750 / 443.8750			
KD4LXT	ATLANTA		GA
KC4KPW	PINEY KNOB	103.5	NC
WO4U	CROSSVILLE	88.5	TN
KD4KPV	MCKENZIE		TN
WC4EOC	NO CITY LISTED		TN
W4DUM	WILLIS		VA
W8SP	FAIRMONT		WV
448.9000 / 443.9000			
K4RHJ	FLOWERY BRANCH	131.8	GA
KC4KZT	DAVID	167.9	KY
W4UA	HIGH POINT		NC
W4GWD	GREENWOOD	107.2	SC
KD4HII	CHATTANOOGA		TN
W4KOC	WHITE HOUSE	107.2	TN
448.9250 / 443.9250			
KQ4XL	MONROE	123.0	GA
W4BAB	RINGGOLD		GA
N4EQT	LAWRENCEBURG	107.2	KY
KF4GUZ	#SPRUCE PINE		NC
KE4KNZ	MCEWEN	107.2	TN
K4DHT	MOUNTAIN CITY	103.5	TN
KF4AGO	SOUTH BOSTON		VA
448.9500 / 443.9500			
KA4UFM	DECATUR	110.9	GA
W4LJM	CANE VALLEY		KY
KG4WCQ	EARLINGTON	179.9	KY
N5ZDF	HAZLEHURST	100.0	MS
KD4OWV	CHARLOTTE		NC
WA1YYN	HILLSBOROUGH	114.8	NC
WA4US	WILMINGTON		NC
KD4OBX	KNOXVILLE		TN
N4ER	MEMPHIS		TN
W4UOT	WINCHESTER	107.2	TN
448.9750 / 443.9750			
KB4NPO	REX		GA
K4TDO	HAZARD	103.5	KY
N4KWT	LOUISVILLE	100.0	KY
KI4CGV	EDEN/REIDSVILLE		NC
N4VDE	LIBERTY	103.5	SC
WR3S	LAVERGNE		TN
KA4WJS	ROCKWOOD		TN
N8FIP	WESTON		WV
449.0000 / 444.0000			
WB4QDX	LAWRENCEVILLE	127.3	GA
WD4AFY	#SAVANNAH		GA
AD4RT	IRVINE		KY
K9OWU	PADUCAH	179.9	KY
W5PFR	CLINTON	100.0	MS
K4JEQ	HICKORY		NC
KI4RK	SELMA		NC
W4ULH	FLORENCE		SC
WD4BKY	GALLATIN		TN
KD4CWB	KNOXVILLE	100.0	TN
W4CAR	CHESAPEAKE	162.2	VA
N4TZE	LYNCHBURG	103.5	VA
KC8IT	MULLENS		WV
449.0250 / 444.0250			
W4CML	LAWRENCEVILLE	127.3	GA
AE4PO	WAYCROSS	141.3	GA
KD4JFN	HIGH POINT	107.2	NC
WC4EOC	FRANKLIN		TN
K4CRS	KINGSTON		TN
K4RDK	MEMPHIS		TN
WB3T	ABINGDON	103.5	VA
449.0500 / 444.0500			
N4NEQ	ATLANTA/MARIETTA	151.4	GA
KE4NLL	SALYERSVILLE	127.3	KY
KB4PTJ	WILLIAMSBURG	100.0	KY
N4JDW	WILMINGTON	88.5	NC
W1WBT	LAKE WYLIE	136.5	SC
N4PYI	NASHVILLE	107.2	TN
WB3T	FANCY GAP	103.5	VA
KB4OLM	STUARTS DRAFT		VA
449.0750 / 444.0750			
W4FWD	CARROLLTON	131.8	GA
KB8SBN	INDEPENDENCE	110.9	KY
KD4BOH	ROCKPORT	77.0	KY
K4CCR	ANDSN MT/DENVER	88.5	NC
N4JDW	BURGAW	88.5	NC
WA4TCC	SCOTLAND NECK	156.7	NC
KC4PDQ	MARYVILLE	100.0	TN
KF4ATY	MEMPHIS	107.2	TN
KG4UHH	NUNNELY	100.0	TN
KD4TBC	GRETNA/SMITH MT	123.0	VA
K8OJC	HURRICANE		WV
449.1000 / 444.1000			
WR4CW	ATLANTA/GLENRI	100.0	GA
W4WSM	BOWLING GREEN		KY
N4UL	LOUISVILLE	173.8	KY
KB5BRZ	MERIDIAN	131.8	MS
WR4AGC	DURHAM		NC
KC4AC	LANCASTER		SC
W4AM	CHATTANOOGA		TN
KE4FH	JOHNSON CITY		TN
KA4JXT	MEMPHIS		TN
KE4CKJ	STAUNTON/EL KNOB	131.8	VA
KB4ZIN	WILLIAMSBURG		VA
N8ILO	PARKERSBURG (OH)		WV
449.1250 / 444.1250			
AF4PX	KINGSTON		GA
KB8QLC	LEXINGTON	88.5	KY
WB4GUG	MCLEANSVILLE		NC
KC4ECD	LAFAYETTE	107.2	TN
KA4JXT	MEMPHIS		TN
N8LVE	BECKLEY		WV
N8RCG	KEYSER	103.5	WV
449.1500 / 444.1500			
W4PME	ATLANTA/BELL	100.0	GA
WB4IVB	MIDDLESBORO	100.0	KY
WD5BJT	CLERMONT HARBR	77.0	MS
WB5YCR	NEW ALBANY		MS
K4JDR	#CLAYTON	100.0	NC
AG4EI	GASTONIA/CRWDR		NC
W4GL	SUMTER	123.0	SC
KE4LQY	CHATTANOOGA		TN
AF4TZ	NASHVILLE	107.2	TN
KI4ZR	LEXNGTN/ROCK MT.		VA
449.1750 / 444.1750			
KE4PVE	COVINGTON	100.0	GA
KC4COV	COVINGTON	131.8	KY
W4FBC	LILLINGTON	118.8	NC
W2GLJ	GERMANTOWN		TN
KC4NNN	KNOXVILLE		TN
K4NRW	ROANOKE/POOR MTN.	103.5	VA
N8FMD	CLARKSBURG	103.5	WV
449.2000 / 444.2000			
KR4PF	MARION	100.0	KY
KD4RTR	PIKEVILLE		KY
WB4YNF	#AHOSKIE	131.8	NC
KE4QEA	#KING/SAURATOWN	100.0	NC
WA4US	WILMINGTON		NC
KF4GHC	LEXINGTON	156.7	SC
KD4HII	CHATTANOOGA		TN
K4MFD	GREENEVILLE	173.8	TN
N4ARK	NASHVILLE		TN
WB4VWR	ENON		VA
W8FES	FLATWOODS		WV
449.2250 / 444.2250			
KE4SJO	WOODSTOCK		GA
KF4RBD	RINEYVILLE	151.4	KY
K4GWH	GREENSBORO	146.2	NC
W4NCS	KNOXVILLE	100.0	TN
N4ARK	NASHVILLE	114.8	TN
WV8AR	CHARLESTON	123.0	WV
449.2500 / 444.2500			
W4BOC	DECATUR		GA
KF4DC	GLASGOW/CVCTY		KY
WA4KNI	HENDSVL/BERWLW		NC
N4EWS	LOUISBURG	88.5	NC
K4SER	WILLIAMSTON	131.8	NC
WA4PAJ	BARTLETT		TN
WQ4E	GREENBRIER		TN
WA4TFZ	CHARLOTTESVILLE	151.4	VA
N8ZAR	BUCKHANNON		WV
449.2750 / 444.2750			
K4JLG	CORNELIA	100.0	GA
K4DDH	GRAY	100.0	GA
KF4IFC	CORBIN	79.7	KY
KU4MJ	DAWSON SPRINGS		KY
NC4BJ	BUIES CREEK	131.8	NC
W4NC	WINSTON-SALEM		NC
W4GZX	CLEVELAND		TN
WA4AXH	LEBANON		TN
W4RDF	#PRINCE GEORGE	103.5	VA
KC8CSE	DUNMORE	123.0	WV
449.3000 / 444.3000			
KC4GZX	ATHENS/CRAWFORD	127.3	GA
KC4YNY	HOGANSVILLE		GA
KD4RTR	ELKHORN CITY	167.9	KY
KG4JNM	LOUISVILLE	156.7	KY
N4DRL	BYHALIA		MS
KC5RC	HEIDELBERG	100.0	MS
WA4VTX	ELIZABETH CITY	131.8	NC
W4ZO	MONROE	100.0	NC
N4MNH	CHARLESTON		SC
WB4GBI	KNOXVILLE		TN
WA4BZU	NASHVILLE	107.2	TN
K4BW	ACCOMACK	156.7	VA
KI4ZR	LEXINGTON		VA
449.3250 / 444.3250			
KF4BMG	MARIETTA	79.7	GA
KF4AUF	HOLLY SPRINGS	100.0	NC
W4NYR	SHELBY		NC
WA4BZU	CLARKSVILLE	107.2	TN
KB4KSL	KNOXVILLE		TN
WB3T	ROANOKE	103.5	VA
KA8ZXP	GLENVILLE		WV
449.3500 / 444.3500			
W4CBA	GAINESVILLE	131.8	GA
WR4SG	VALDOSTA	141.3	GA
K4CO	WALTON	123.0	KY
K4KAY	CHARLOTTE	118.8	NC
WB4IKY	GIBSONVILLE	107.2	NC
KR4LO	GRANTSBORO		NC
WD4BKY	GALLATIN	114.8	TN
KD4CLA	PIGEON FORGE	156.7	TN
N4CH	BEDFORD		VA
WB8YST	CHARLESTON	107.2	WV
449.3750 / 444.3750			
KB4IZF	JASPER	103.5	GA
KD4DAR	PIKEVILLE		KY
KB5HAV	PEARL	88.5	MS
N4DTR	FRANKLIN	131.8	NC
KB4WGA	HENDERSON	100.0	NC
KB4YTM	HUNTINGDON		TN
KR4BT	SPARTA	123.0	TN
N4OWU	FANCY GAP	107.2	VA
449.4000 / 444.4000			
WB4ULJ	HAMILTON		GA
WB4HJG	LULA	71.9	GA
AC4VV	SHEPHERDSVILLE		KY
KC4COV	WITHAMSVILLE	131.8	KY
K4MN	FAYETTEVILLE	100HZ	NC
WA4KOG	MEMPHIS		TN
N4PYI	MT JULIET		TN
K4EAJ	OAK RIDGE	82.5	TN
N8LVE	ALDERSON/SAM BLK	100.0	WV
KC8RRI	CROSS LANES	91.5	WV
449.4250 / 444.4250			
K4PE	HELEN	127.3	GA
W4LAW	SUMMERVILLE	100.0	GA
KD4EVB	DRY RIDGE	107.2	KY
KF4QZN	MORGANTOWN	179.9	KY
N4HAJ	FOUNTAIN	88.5	NC
NC4UC	MONROE	94.8	NC
N2BR	ALGOOD	88.5	TN
KC4NNN	KNOXVILLE		TN
WA4ISI	ALTAVISTA	100.0	VA
KB8TJH	SHIRLEY		WV
449.4500 / 444.4500			
W4DOC	ATLANTA	146.2	GA
KO4OT	SIMPSONVILLE	100.0	KY
KD5AHI	ABERDEEN	210.7	MS
KB5LCL	JACKSON	141.3	MS
W4CQ	CHARLOTTE		NC
WR4AGC	HILLSBOROUGH	100.0	NC
N4DTR	WAYNESVILLE		NC
WA4US	WILMINGTON		NC
W4CAT	GALLATIN	107.2	TN
WJ9J	SODDY DAISY		TN
W8MOP	BLUEFIELD		VA
449.4750 / 444.4750			
KD4GEY	FOLKSTON		GA
N4CLA	SWEAT MT/MARIETT		GA
KF4QZN	MAMMOTH CAVE	179.9	KY
AD4BI	PIKEVILLE		KY
KG4BTN	GREENSBORO	107.2	NC
N4ZKR	NEWBERN	107.2	TN
N4ZKR	SUMMITVILLE	107.2	TN
AD4ZK	NORFOLK	127.3	VA
K8VE	BUCHANNON	146.2	WV
449.5000 / 444.5000			
W4MM	ALBANY		GA
KD4GPI	ATLANTA	110.9	GA
N4BZJ	DALTON	118.8	GA
KD4GMH	MANCHESTER	103.5	KY
W5LRG	MERIDIAN	107.2	MS
W4PAR	LEXINGTON		NC
N4JEH	TARBORO	100.0	NC
K4NOC	BISHOPVILLE	123.0	SC
KE4CCB	BLUFF CITY	77.0	TN
K4DAV	COOKEVILLE		TN
N4WAH	MEMPHIS		TN
K4CQ	LYNCHBRG/TOB MT	136.5	VA
449.5250 / 444.5250			
W4GR	SNELLVILLE	82.5	GA
KJ4VF	GRETHEL		KY
N5NNI	NEW HEBRON		MS
W4RNC	RALEIGH	82.5	NC
WA4ZRS	WAXHAW	94.8	NC
N4LV	MYB BCH/BRKSVIL		SC
KD4IBW	KNOXVILLE	100.0	TN
WA4BGK	NASHVILLE	107.2	TN
WB8YST	BECKLEY/OAK HILL	110.9	WV
449.5500 / 444.5500			
WB4JEH	CONYERS	151.4	GA
K4DC	LEWISPORT		KY
KG4DUU	LEXINGTON		KY
K4JDR	BENSON	100.0	NC
N4GAS	GASTONIA/SPCR MT		NC
KA4BQM	ROANOKE RAPIDS	192.8	NC
KG4BZN	WALTERBORO	123.0	SC
KK4TD	COOKEVILLE	107.2	TN
WF4Q	MCNAIRY	107.2	TN
WA4PCD	NASHVILLE		TN
KB4WTP	COPPER RIDGE	103.5	VA
W4QR	HAMPTON	167.9	VA
K4CQ	WINTERGREEN	136.5	VA
449.5750 / 444.5750			
KC4YAP	DEVEREUX	100.0	GA
W4SCR	DOUGLASVILLE	88.5	GA
N4MVY	PHELPS		KY
KC5CLM	PORT GIBSON	141.3	MS
KC4FWC	BOONE/RICH MT	77.0	NC
W4BAD	DURHAM	88.5	NC
N4HAJ	KINSTON	88.5	NC
K2PJ	MYRTLE BEACH	85.4	SC
W4BBB	KNOXVILLE/RACK	100.0	TN
WA4WCK	NASHVILLE		TN
449.6000 / 444.6000			
W6IZT	BLAIRSVILLE	100.0	GA
W4PSZ	FAYETTEVILLE	77.0	GA
WA4NKL	QUITMAN	127.3	GA
KF4WMM	BRUSHY FORK	88.5	KY
N4NMC	LOUISVILLE	151.4	KY
KC4FIE	MADISONVILLE		KY
W4SJH	SPRINGFIELD		KY
KB5CO	JACKSON	100.0	MS
W4BFB	CHARLOTTE	100.0	NC
NO4EL	OXFORD		NC
KT4YW	NO. CHARLESTON		SC
WA4PPL	COOKEVILLE	107.2	TN
WA4AUX	PROSPECT	118.8	TN
KA8TCF	WESTON		WV
449.6250 / 444.6250			
K4EDN	BONAIRE	82.5	GA
W4CBA	CUMMING	123.0	GA
KC5BMJ	KINGSLAND	118.8	GA
W1BPP	MOULTRIE	123.0	GA
KB4QFL	HAWESVILLE		KY
KE4ISW	RICHMOND	192.8	KY
AB5MU	NETTLETON	192.8	MS
N5OCF	RICHTON		MS
WB4DVN	LUMBERTON		NC
WD4EOG	CLEMSON UNIV.	156.7	SC
WT4E	COLLIERVILLE	107.2	TN
KD4TUD	JEFFERSON CITY		TN
WA4TOA	NASHVILLE	107.2	TN
WZ8E	BLUEFIELD		VA
W4HCH	SOUTH BOSTON		VA
449.6500 / 444.6500			
KF4CXL	MCINTYRE	77.0	GA
N4IBW	SMYRNA		GA
WB4FUR	STENNIS SPC CEN		MS
N5NBG	WALLS		MS
NE4J	MIDDLESEX	179.9	NC
KJ4HF	SALISBURY	88.5	NC
WA4US	WILMINGTON		NC
N4UHF	LAKE MURRAY		SC
WB4NKM	GREENEVILLE	100.0	TN
W4CAT	SHRT MT/MURFREB	107.2	TN
WD4BSB	CHRISTIANSBURG	107.2	VA
N4EHJ	RICHMND/CHLTVL		VA
449.6750 / 444.6750			
KC4CBQ	HIAWASSEE	186.2	GA
KN4YZ	TYRONE/PTC	77.0	GA
KC4VYX	ROBINSON CREEK		KY
KF4AWA	SALVISA	203.5	KY
N5PS	GREENVILLE	100.0	MS
W4WBT	CHARLOTTE		NC
KE4JDP	#JACKSONVILLE	88.5	NC
KD4RAA	RALEIGH	100.0	NC
W4GS	MYR BCH/CONWAY	85.4	SC
WA4PCD	NASHVILLE		TN
WD4MIZ	NORFOLK	107.2	VA
K4IJ	PEARISBURG	103.5	VA
AB8WB	GASSAWAY	123.0	WV
449.7000 / 444.7000			
WB4SBT	BYRON	103.5	GA
WD4LUQ	DALLAS	77.0	GA
KF4BJM	VALDOSTA	141.3	GA
WB4JM	BOWLING GREEN	136.5	KY
AD5IT	GRENADA	107.2	MS
NC5Y	JACKSON		MS
KD4BGD	LUMBERTON	114.8	NC
N4JEH	ROCKY MOUNT	107.2	NC
AE4GA	STATESVILLE	94.8	NC
AG4UW	CENTERVILLE	107.2	TN
KF4VDX	MARYVILLE	127.3	TN
N4ZKR	PALMER	107.2	TN
K4AU	DANVILE/WHT OAK		VA
N4WWB	GATE CITY		VA
WB8CQV	HERNSHAW	203.5	WV
K8LG	MORGANTOWN		WV
449.3250 / 444.7250			
KC4FWC	#BLADENBORO	77.0	NC
449.7250 / 444.7250			
AG4PR	DALLAS	123.0	GA
KD4AOZ	WATKINSVILLE	123.0	GA
KY4K	HENDERSON	82.5	KY
KE4ISR	LEXINGTON		KY
W4ZCD	HICKORY FLAT	179.9	MS
KC4FWC	#BLADENBORO	77.0	NC
KD4MMP	WINSTON-SALEM	107.2	NC
KC4KPJ	ROCK HILL	127.3	SC
WA4AKM	FRANKLIN	107.2	TN
WB0TMC	JACKSON	107.2	TN
N4CKB	SEVIERVILLE	123.0	TN
KF8FO	LEWISBURG	103.5	WV
449.7500 / 444.7500			
KC4ELV	CONYERS	162.2	GA
N4ZRF	LAKEMONT		GA
KC8ERN	#ASHLAND	88.5	KY
KE4AIF	HOPKINSVILLE	103.5	KY
WB9SHH	MONTICELLO		KY
KD5GVU	STARKVILLE		MS
NC4GC	GASTONIA		NC
KD4JFN	PITTSBORO	146.2	NC
K4TC	HENDERSON		TN
KF4VWJ	HIXSON	100.0	TN
N4PYI	MT JULIET	156.7	TN
449.7750 / 444.7750			
N4NEQ	ATLANTA/MARIETTA	151.4	GA

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Concludes

N4MXC	COCHRAN		GA
N4IWZ	ALLEN	123.0	KY
KC4UPE	NICHOLASVILLE	167.9	KY
N5PS	SATARIA	107.2	MS
K4JDR	CARY	100.0	NC
KR4EX	OLD FORT		NC
WA5KUB	CORDOVA	100.0	TN
WA4AKM	GALLATIN	107.2	TN
KF4UCI	#CHARLOTTEVILLE		VA
WD4KZK	SLINGS GAP	107.2	VA
449.8000 / 444.8000			
WA4ASI	COVINGTON	88.5	GA
W4BEJ	ELIZABETHTOWN		KY
KB5CO	JACKSON		MS
WB4PMQ	GREENVILLE	131.8	NC
KF4LUC	HICKORY	94.8	NC
K4YEC	REIDSVILLE	107.2	NC
KD4QMS	SOUTHERN PINES	118.8	NC
KE4RAP	NORTH AUGUSTA		SC
K0JXI	MEMPHIS		TN
KD4LP	#MORRISTOWN		TN
N4PYI	NASHVILLE	110.9	TN
KB4MIC	OILVILLE		VA
WV8B	BECKLEY/OAK HILL	100.0	WV
W8CUL	MORGANTOWN		WV
449.8250 / 444.8250			
W4DOC	ATLANTA	146.2	GA
KC4UPE	BEATTYVILLE	192.8	KY
KC4VXR	SALEM	100.0	KY
KB5DSN	AMORY		MS
KF4UY	MT AIRY/FSH PK	100.0	NC
KD4RAA	NEWPORT	100.0	NC
K4GWH	RALEIGH	146.2	NC
K4ILT	HOLLY HILL	103.5	SC
KE4FGW	MARYVILLE	100.0	TN
K5FE	MEMPHIS	107.2	TN
N4PYI	SMITHVILLE	107.2	TN
KG4BKI	FRANKLIN	131.8	VA
WA4ZBP	STAUNTON	131.8	VA
N8RKU	CHARLESTON	123.0	WV
449.8500 / 444.8500			
N4BZJ	DALTON		GA
N4YXL	GREENSBORO	103.5	GA
KG4OGC	HINESVILLE		GA
KF4QZN	HORSECAVE	179.9	KY
AA4NI	NEBO		KY
AB5DU	INDIANOLA	136.5	MS
KC5LXF	PINOLA		MS
W4CQ	CHARLOTTE		NC
W4BAD	RALEIGH	100.0	NC
WN4Z	ROCKY MOUNT	131.8	NC
K4GMP	WILMINGTON	88.5	NC
WB4NNX	HOHENWALD	100.0	TN
WD4MWQ	MCMINNVILLE		TN
K7AG	MEMPHIS	107.2	TN
KF4VDF	POUND	103.5	VA
AB4SF	RICHMOND		VA
WD4KZK	ROANOKE/READ MT	107.2	VA
WB8ZER	HUNTINGTON/CHAS	131.8	WV
449.8750 / 444.8750			
KE4UAS	MCDONOUGH	82.5	GA
KE4RJI	TIFTON		GA
KC4UPE	SALVISA	167.9	KY
N5HTQ	MCCOMB	100.0	MS
KD4RAA	#LOUISBURG	100.0	NC
WB4U	WINGATE	127.3	NC
KD4UWA	CHAT/MNTLAKE MT	156.7	TN
WA4AKM	NASHVILLE	107.2	TN
KB4WTP	BIG A MTN		VA
449.9000 / 444.9000			
KD4BOO	AUGUSTA		GA
N4BBQ	DAHLONEGA	100.0	GA
WB4IVB	CORBIN	100.0	KY
W4YWH	HIGHLAND HEIGHTS	123.0	KY
KY4SP	HUDSON	179.9	KY
W4EWN	NEW BERN	100.0	NC
W4EJ	WILSON	179.9	NC
K4SHP	MYR BEACH/AYNOR	123.0	SC
WB4MMI	RAMER		TN
W4LYR	WATERTOWN	100.0	TN
WA4CQK	FANCY GAP	100.0	VA
N8SCS	BELINGTON	141.3	WV
NV8H	LOGAN	203.5	WV
449.9250 / 444.9250			
WA4NNO	ATLANTA		GA
WB4NFG	IRWINTON	77.0	GA
N4PJR	JESUP	141.3	GA
KY4X	GLASGOW		KY
KO4LI	OLIVE HILL		KY
N5PYQ	SOUTHAVEN	107.2	MS
WB5TTE	VICKSBURG		MS
KB4WGA	DURHAM	100.0	NC
K4OBX	HATTERAS ISLAND	131.8	NC
N4XRY	MOUNT AIRY		NC
N4NTO	TARBORO	118.8	NC
AC4RZ	EASLEY/SAS MTN	103.5	SC
KI4CB	GEORGETOWN		SC
WA4AKM	COLUMBIA	107.2	TN
N4VIH	DOVER		TN
KD4TZD	KNOXVILLE		TN
KD4FWS	FANCY GAP	100.0	VA
WB8BON	ROANOKE/TINKER M		VA
449.9500 / 444.9500			
W4TL	CLERMONT	131.8	GA
WR4MG	PERRY		GA
N4DUE	LEXINGTON		KY
WB5YGI	PHILADELPHIA		MS
N5VGK	TUPELO	192.8	MS
WA1WXL	CHARLOTTE	136.5	NC
KF4DWV	GREENSBORO	100.0	NC
KF4HFQ	ROLESVILLE	88.5	NC
KD4PBC	CHARLESTON	103.5	SC
W4EYJ	CROSSVILLE	118.8	TN
K4GX	GREENEVILLE		TN
WB4NNE	MEMPHIS		TN
N8ITF	SPRINGFIELD	100.0	TN
WA4KXV	VIRGINIA BEACH		VA
WB8CQV	SO. CHARLESTON	203.5	WV
449.9750 / 444.9750			
WA4YNZ	ATLANTA		GA
K4TVE	BRUNSWICK		GA
W4MAZ	COCHRAN	77.0	GA
KC4QK	ASHLAND	107.2	KY
WB4CWF	NICHOLASVILLE		KY
N5PS	O'REILLY	100.0	MS
KE4QAP	ASHEBORO		NC
N4JEH	CASTALIA	107.2	NC
W4YMI	NEWPORT CCARS		NC
KC4ZTJ	POLKVILLE		NC
WM3O	ORANGEBURG		SC
KQ4E	MORRISTOWN		TN
WA4AKM	NASHVILLE	107.2	TN
N4AZJ	PEARISBURG	103.5	VA
N8EKT	WHEELING		WV
441.8250 / 446.8250			
KC4NSE	#BLACKSTONE		VA
443.7750 / 448.7750			
W4RKC	WINCHESTER	146.2	VA
443.8250 / 448.8250			
KQ4CI	#ASHBURN		VA
439.2500 / 911.2500			
KA5NOJ	GAUTIER		MS
426.2500 / 923.2500			
K4CQ	LYNCHBURG		VA
439.2500 / 923.2500			
KY4ATV	#LEXINGTON		KY

900 MHZ

907.5000 / 919.5000			
WD4KZK	ROANOKE/POOR MT	107.2	VA
908.5000 / 920.5000			
KF4TNP	LEWISBURG		TN
908.8000 / 920.8000			
KQ4E	MORRISTOWN		TN
908.9000 / 920.9000			
KG4KIJ	SWEETWATER		TN
909.0000 / 921.0000			
K4CQ	LYNCHBRG/TOB MT	100.0	VA
909.1000 / 921.1000			
WA1ZMS	BEDFRD/APL ORCH	100.0	VA
910.2500 / 923.0000			
WA4VHP	#SAVANNAH		GA
K4ZGA	NASHVILLE		TN
902.4875 / 927.4875			
KB0Y	VALDOSTA	141.3	GA
N4JNE	FANCY GAP	100.0	VA
902.5000 / 927.5000			
KG4LMT	ATLANTA	223.0	GA
902.5125 / 927.5125			
KE4PAB	PICKENS	100.0	SC
902.5250 / 927.5250			
N8EKA	DAHLONEGA	100.0	GA
902.5370 / 927.5370			
W4BIW	HOSCHTON	100.0	GA
902.5500 / 927.5500			
WA4TOG	BEAR WALLOW	131.8	NC
902.6125 / 927.6125			
KB4WGA	DURHAM	100.0	NC
902.6625 / 927.6625			
N2QJI	CONCORD	141.3	NC
W4FAL	RALEIGH	156.7	NC
N4DTR	WAYNESVILLE	131.8	NC
902.7250 / 927.7250			
KA4MKG	LEXINGTON	DCS75	KY

1270 MHZ

1265.0000 / 421.2500			
N4BZJ	DALTON ATV		GA
1253.0000 / 427.2500			
N4NEQ	ATLANTA/MARIETTA		GA
1277.2500 / 439.2500			
KD4EEW	NASHVILLE		TN
W4PPN	#CHARLOTTE		NC
1270.5250 /1282.5250			
N2QJI	CONCORD	141.3	NC
1271.1000 /1283.1000			
WA1ZMS	BEDFRD/APL ORCH	100.0	VA
1272.4000 /1284.4000			
WA4AKM	NASHVILLE		TN
1273.3000 /1285.3000			
KF4TNP	LEWISBURG		TN
1274.0000 /1286.0000			
K1YJ	NASHVILLE	88.5	TN
1274.5000 /1286.5000			
KB4ZOE	SMITHVILLE		TN
1271.0200 /1291.0200			
N4CH	ROANOKE/POOR MT		VA
1271.4100 /1291.4100			
AD4DN	WILMINGTON	88.5	NC
1272.0000 /1292.0000			
KB4KIN	ATLANTA/BELL		GA
N4HKS	MEMPHIS		TN
1272.8200 /1292.8200			
AG4EI	GASTONIA/CRWDR		NC

2.4GHz

2441.6000 /2411.6000			
WA1ZMS	BEDFRD/APL ORCH		VA

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MEMBER

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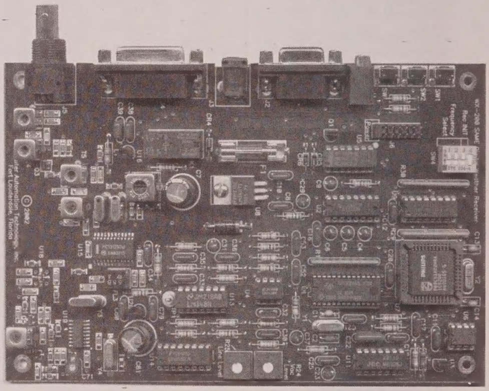
NOV: Oct. 15

Computer Automation Technology, Inc.
WX-200 Digital Weather Receiver

The NOAA Weather Radio Network broadcasts National Weather Service warnings, watches, forecasts and other hazard information 24 hours a day. With so many unsettling weather conditions, don't you think its time to provide timely weather alerts for your repeater group?



Specific Area Message Decoder

A digital decoder responds to Specific Area Message Encoded (SAME) alerts transmitted by the NOAA weather station located in your area. Select your county code and the type of alert. Select warnings and/or watches.

Voice Synthesizer Alert Message

Imbedded in the alert information packet is the time the warning or watch is in effect. The voice synthesizer will key-up the transmitter and announce the alert. "Severe Thunderstorm Watch," "Tornado Warning," "Winter Storm Warning," "Flash Flood Watch," and the new Amber Alert for missing children are just a few.

Alert Message Transmit Timing

At the conclusion of an alert, a termination packet turns the transmitter off.

Repeater Interface

The WX-200 has been designed to easily interface to your repeater. A minimum of four connections is all that is required.

Weather Enable Input

Ground this input to provide weather reports on demand.

Weather Disable Input

Ground this input to prevent future alerts once a Skywarn net is activated.

Weather Alert Log

The WX-200 stores the date, time and type of alert in memory. Use the RS-232 port and the configuration program to download the log.

Alert Start Logic Output

This output provides a TTL logic high when a weather alert is received. It can be used to set off an external alarm or trigger the controller to execute a macro or load a memory save.

Alert Stop Logic Output

Included in the digital packet is the length of the alert. The WX-200 generates a stop logic output when the time period has expired. Use this output to reload a normal memory save.

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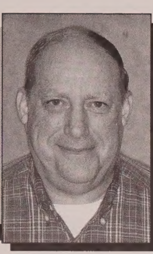

GEORGIA

REPORTED BY
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[My thanks to Georgia Vice-Director Pete Seabolt N4KHQ, who has volunteered to step in and keep the GA column going. But if anyone in the GA district is interested in writing this column and keeping everyone up to date on Georgia ham radio activities, drop Pete a line at n4khq@sera.org – KN4AQ]

I like amateur radio, and have invested thousands of dollars in repeater equipment and towers. I don't know the total, but if I did I would not put the figure in an article that my XYL could read. She does not consider it much of an investment.

I do not like cell phones and have resisted using a cell phone until I was forced by my employer to carry one. The bright side of the situation is that my little Nextel has a PTT. My best friend at work, N4BBQ, and I use our callsigns about half the time on Nextel PTT.

Echolink is a relative newcomer to the amateur community, but there is plenty of information on the web and in print, including the *Repeater Journal*. I was not able to attend the Dayton Hamvention this year, but the WB8SMC repeater in Dayton, OH, is an Echolink repeater that has handheld coverage for Hara Arena. I was able to link the 146.835 in Dahlonega to the WB8SMC in Dayton and talk to my friends at the hamvention on their handhelds. I could even drop the link from my end, and my friends in Dayton could link to the Dahlonega repeater using the DTMF tones on their handhelds, thanks to the OH group posting the codes in text when you connect to their repeater.

The traffic was surprisingly light on the repeater, but I did overhear a QSO with a ham on his computer talking to his friend at the hamvention. He told his friend to beep him on the Nextel if he did not answer the call. Nextel charges almost nothing for PTT time, and I was wondering why the hams would switch to a repeater when they could use Nextel PTT. It did not take me long to remember: repeaters will always be the choice of "real hams".

The GA SERA district now has an on-line Form 03 to assist applicants who want to coordinate a repeater frequency pair. It is very important that you download the instructions and guidelines for coordination from the SERA web site (**www.sera.org**). There is a link to the GA page, and on the GA page you will find the link to the Form 03.

Phil Heaton N4BBQ is the new Asst. Director and Frequency Coordinator for GA

N4BBQ NEW ASST. DIRECTOR

SERA and the Georgia District welcome Phil Heaton N4BBQ as our newest Assistant Director and Frequency Coordinator.

Phil has been licensed since 1995, starting as a Tech+ and moving on up to Extra. He enjoys building amateur radio equipment and currently runs a home brew 4x811A amp and balanced coupler that matches a 160 meter dipole up through 40 meters.

He enjoys ragchewing on 160 meters (1998k Hz) in the winter, 80 meters (3955 kHz) year round, and has been getting on 60 meters (5346.5 kHz) for the past month or so. He owns a 440 repeater in Dahlonega, and says enjoys the 220 band most of all the FM bands. He has a 160 meter mono-band transceiver in progress that hasn't seen much attention lately.

Phil works for Lumpkin County Schools in the technology department. His specialties lie in the UNIX world and with network security and efficiency. He came to Lumpkin after 12 years at Rockwell International where he worked on the ERINT and PAC3 teams in the defense industry. He worked on the RF design team for the Seeker that Rockwell built for Loral. His educational background is in Physics and Computer Science.

Phil says "I have a wonderful wife named Dru and we enjoy walking and traveling. We have just started marathon walking and are planning on walking our first marathon in October in Ireland. We both are looking forward to that. Currently we have no children." ■

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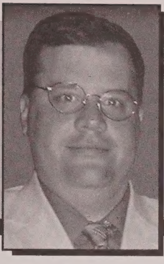

KENTUCKY

REPORTED BY
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Amateur radio operators have been very active across the state over the past few months. Community service was very much in the spotlight around the state due to several bouts with severe weather, and Homeland Security exercises. All enjoyed the annual event from the reports I have received.

SEVERE WEATHER RESPONSE:

Many of the state's amateur radio operators were involved in severe weather response, and recovery effort. According to the National Weather Service, May brought Kentucky 74 severe hail, 251 damaging wind, 21 tornado and innumerable riverine and flash flooding reports. According to reports received by **Ron Dodson KA4MAP**, Section Emergency Coordinator, forty-six operations resulted in over 1700 hours of service to multiple communities across Kentucky. According to Kentucky Emergency Management, sixty-six counties were included in a Presidential Disaster Declaration assisting those affected by the severe weather.

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Members of the **Big Sandy Amateur Radio Club** and **District 9 ARES** assisted emergency management agencies, Salvation Army and the Red Cross in a three-day operation, said Fred Jones WA4SWF. Focusing on relief to flood victims, communications were provided in Inez by John Mills AE4HI, Woodrow Nichols KG4RUV. John Hagar K4KJU was the key in Martin County. Jim Compton W4ZVL provided communications and delivered clothing and other items for the disaster relief agencies. Ralph Tuley KB9ORD provided a mobile command post for the operations. District 9 ARES Coordinator Ed Caudill KB4SQI and Jones directed the operations.

PRACTICE MAKES PERFECT

Amateur radio's role has changed since 9/11. Agencies across the nation and Kentucky have enlisted the assistance of hams to supplement emergency communications. ARES and MARS operators have been part of many exercises.

KY ARMY MARS Director of Emergency Operations Patrick Compton KF4FMZ/AAM4EKY/AAR4QZ reported, "This past month of June, KY ARMY MARS participated in the Eastern Area Grecian Firebolt 2004 Exercise. This drill floods the phone, digital, and email MARS networks with traffic simulating major disasters combined with threats and events from domestic terrorism. The exercise provides training for traffic handling and operation of emergency type nets. This year's exercise was not as active as previous years for the KY section, but will be reviewed and improved for next year by KY MARS Staff."

Pendleton Co. ARES assisted multiple agencies in a drill testing intercommunications between agencies. It was reported that the geographic location of the drill provided challenges to public service communications. Amateur radio helped fill the gaps to provide communications, according to EC Dick Wyatt KY4UK.

Operators in multiple central Kentucky counties provided a communications avenue for hospitals, government agencies, and military officials during a **Metropolitan Medical Response System** (MMRS) drill that focused around response to an exercise terrorist incident in another city. For more information on MMRS visit **mmrs.fema.gov**.

KY HAM HONORED AT DAYTON

One of Kentucky's greatest amateur radio operators was honored with a Special Achievement Awards at the Dayton Hamvention in May. **George Wilson III W4OYI** of Owensboro was recognized for his lifetime of contribution to amateur radio. Licensed in 1948, Wilson has served in a number of roles in the ARRL from local emergency service, positions on the ARRL Board of Directors. During the 1990's he served a term as ARRL President. In 2003 the ARRL Great Lakes Division instituted the "George S. Wilson Lifetime Achievement Award." Wilson currently serves on the board of directors of the **Owensboro Amateur Radio Club** and as President Emeritus of the ARRL.

KY ARRL CONV. SEPTEMBER 10:

The **KY ARRL Convention Banquet** will be held September 10 at the Paroquet Springs Conference Centre in Oldham County. Highlights of the event include several guest speakers, awards for outstanding Kentucky operators, a Wouff-Hong ceremony and entertainment. The banquet is hosted as part of the **Greater Louisville Hamfest**. Act fast, reservations are required by August 28. For more info, go to **www.critterbob.net/glha/**.

REPEATER SPOTLIGHT

The **Buckhorn Lake Repeater System** located near the Breathitt and Perry County line offers many resources to operators. The system, maintained by John "Sonny" Smith K4XYZ, provides ten-meter, two-meter, and 70 cm repeaters. Smith invites everyone to use the 29.620, 147.375+ (PL 103.5) and the 443.400+ (PL 100.0). Smith maintains the repeaters with the help of Greg "Beeker" Riley KG4YJM.

NEWS BITS

Lynn Traylor KG4ABA assumed the role of Net Manager of the **Kentucky Traffic Net** on July 1. The KTN meets daily at 1900 Eastern on 3.960 LSB. Kentucky has been progressive in merging its National Traffic System program with the Amateur Radio Emergency Service program to provide a more streamlined amateur radio public service communications program.

Eleven amateurs provided communications for the **KY Multilple Sclerosis Society "Bike the Bluegrass"** event. Beginning in Georgetown, the event crossed 6 counties and concluded in Danville. **Ron Goodpaste, AG4TY** has coordinated the amateur radio participation in the event for several years.

Do you have news? Send me an email at kd4pwl@sera.org. Need help coordinating a repeater? Look at the coordinators index on page 2 of this issue. ■

MISSISSIPPI

REPORTED BY
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KG4CKW@SERA.ORG

Hello from Mississippi,

It was a hot 4th of July night when I got the call to come help with a search and rescue project. I have a four wheel drive ATV, so sometimes the County officials call to see if I can help with Search and Rescue operations. We left about 11pm to go to the site. About 4 other ATV riders were there and we begin to hunt for a man and his daughter who decided to go floating down the creek. The next day, after we didn't find them, they walked out unharmed.

During this outing, several things kept crossing my mind. This county, like most of the country, has gone to an 800 MHz system that works when you are close, but not so good across distance. The county has just one 800 MHz repeater, so the coverage is sketchy at best. Handheld-to-handheld coverage is exceptionally poor.

If I had even one other ham in the area it would have been somewhat better. At one point I had to give a deputy a ride on the back of my 4 wheeler, because he couldn't make contact with the base with his HT or a Cellular phone. Of course even a 2-meter HT would have been able to work a local repeater or talk simplex across the woods without problem. We had to limit our area of search because of this lack of communication.

I realize that most of us lead ever-busier lives and have seldom time to rest and relax. But part of our mandate as Amateur Radio Operators is to provide help with public service. I gave my call sign out on 3 repeaters on the way to the site and never got a response, so I could not get help. I wish someone had been listening, but at that time of night on a holiday no one was. Of course this county did not call anyone with ARES because here there is no real ARES group.

I realize that this space is not reserved for my editorials or complaints. I just wanted to share this story with the group, as an example of where ham radio could have been very helpful. Since this time, I have talked with about 6 people and have gotten them started in studying for their license. I plan to get a good group of ARES folks ready for the next time there is a need. The basic point is, when available please help out with public service. The experience can be rewarding and also provide some great publicity for ham radio.

Now for the news.

METRO-JACKSON ARES AND JARC RESPOND TO AMTRAK ACCIDENT

On April 6, members of the **Metro-Jackson ARES** and the **Jackson Amateur Radio Club** responded to a derailed Amtrak passenger train bound to Chicago from New Orleans. The accident occurred in rural Madison County. The *City of New Orleans* was carrying passengers when it left the tracks near the Madison-Yazoo county line. The location made access difficult for rescue workers and other emergency personnel, including communications and logistics. As the JARC board had just started their monthly meeting, K5VU and other board members responded to the Central Mississippi American Red Cross' request for emergency communications.

Less than one hour earlier, Billy Bob Sekul N5XXX, **JARC Skywarn** director, had placed members on alert at the request of the National Weather Service for severe weather beginning Wednesday Morning. Greg King KD5HDZ accompanied the Red Cross Response Vehicle as it brought water and snacks to emergency workers at their command post. Members Bill White KC5YYY, and Terry Drake KD5JBP manned the station at the Red Cross Chapter using HF and repeaters. ARES members worked well into the early morning in support of Red Cross Disaster Services relief operations. They passed vial messages and on-scene information. Fortunately, rescue operations quickly turned into a cleanup effort as patients were transported to area hospitals and overnight accommodations.

Harrison County ARES participated in **Lifesaver 2004** – a major Homeland Security Drill involving simulated terrorist attacks over several states. ARES operators in Harrison County maintained communications among EOCs in Mobile, Gulfport, and Jackson.

EC K5DSG reports that **Lafayette County ARES** has the new call W5LAF and has a permanent meeting place now that the new county fire department central station is completed.

Metro Jackson ARES EC AC5SU reports that a weather drill was conducted on May 22 after the drill had to be cancelled on May 15 because of a real weather situation! The May 22 drill emphasized mobilization of resources, net operations and coordination, and the transition from initial Skywarn/ARES response to recovery operations. An "aftermath" to the May 22 Drill is planned for July.

In **Lauderdale County** EC KD5GWM reports that a 2-Meter Station has been installed at the Red Cross Chapter due to the efforts of KD5GWM, WB5GUD, W5RB, KC5NMB, N5VWS, and KD5WBQ.

W5AUB, **Jackson ARC** Public Service Coordinator, reports that the **JARC** provided communications for 1st Annual **Giro de Brandon Bike Race** sponsored by the US Cycling Federation and the MS-LA Bicycling Association. Although there were no significant mishaps over the 20.4-mile loop in Rankin County, the sponsors were most appreciate of the **JARC** communications support. Those participating were KD5HDZ, W5AUB, KD5JPB, KC5WYY, KD5QQF, KD5SBP, and KC5AHD.

(I would like to thank Malcolm Keown W5XXX for allowing me to reprint the last three stories, from the ARRL MS web page.)

The **Lowdes County Amateur Radio Club** is growing by leaps and bounds. Two years ago the club's membership had dropped into the 20's. Currently they have 49 members. Two factors have brought on this success according to Bob Ray K5VVA: family memberships and several license classes have increased the rolls. 12 members came directly or indirectly from the classes. 21 total members have resulted from the classes and family memberships.

The weather was great for the **Tour LeFleur** 25, 50, 62, 100 mile century rides on the Natchez Trace. Tom Dichara AC5MR rode the 62-mile ride. He then stayed on Sunday morning and helped the **Jackson Amateur Radio Club** provide emergency communications for the Tour LeFleur professional bike race. The course was 23 miles long and different age groups competed. The pro class did 3 laps for a 73-mile race. Many hams from the Jackson Club participated.

The **Tupelo Amateur Radio Club** was asked to represent the **Skywarn Storm Spotter** program at the **Home Depot Annual Safety Day** event on Saturday, June 5. Along with TARC the Tupelo Police Department, Fire Department, Lee County Sheriff's Department where there to present various safety demonstrations.

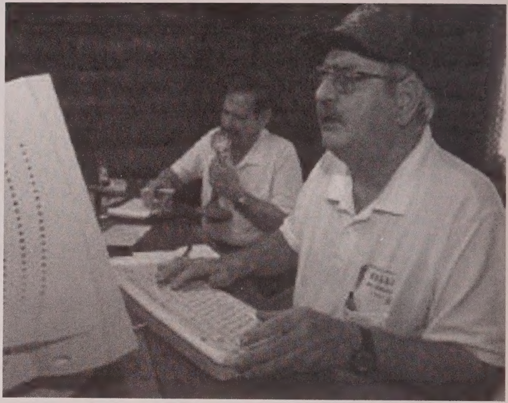
TARC had both of their ECT teams Go-Boxes on display, along with other information on severe weather and weather safety. There were a lot of children and parents on hand for the event; the kids even got to play the sirens on the police cars and fire truck. Everyone had a lot of fun and fellowship. Special thanks goes to

Rob WJ5K for his help in getting the TARC on WTVA Channel 9. *(Got this information from the TARC website.)*

The **Jackson Amateur Radio Club** has elected their new officers, who serve terms from July 1 to June 30. The new officers are as follows. President; Lew King W5LEW. Vice President; Mike Duke W5XU. Secretary; Bill White KC5WYY. Treasurer: Ben Jones AC5SU. Past President; Jeff Sykes K5VU. Congratulations to the new officers and thanks to the old officers for doing such a good job.

Well that is about all there is for me report this time. I hope to keep gathering more news to share. Next quarter I hope to have plenty of stuff about Field Day to share. For now I will leave a picture down here of Jim Maginn N5LAJ and Pete Allen AC5E participating in the **Hattiesburg Amateur Radio Club's** Field Day activities.

73 and see you next time



N5LAJ and AC5E working the pileup at the Hattiesburg ARC Field Day.

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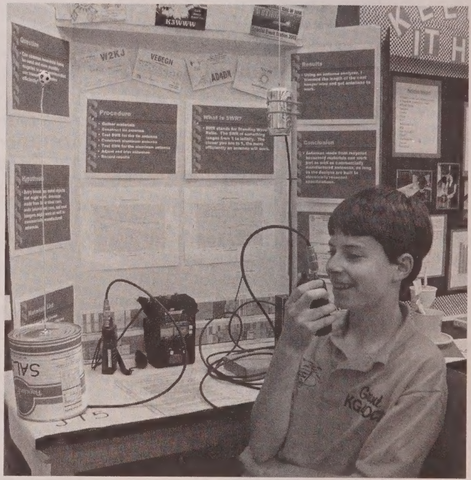
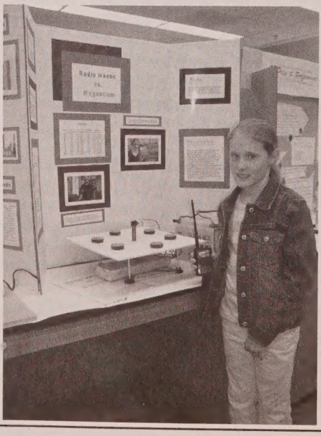
KG4OCD wins at NC Science Fair

In the May RJ we reported that Wilminton's Grant Morine KG4OCD was on his way to the North Carolina Science Fair. We're excited to report that Grant *won* in the middle school Technology Division with his demonstration of homebrew antennas. Congratulations, Grant!

A second ham-radio themed entry was also competing in the middle school catagory. Stephanie Bauer KG4TFY of Greensboro set up an experiment to show how radio signals were affected by magnetic fields. She transmitted with an HT in a strong field created by a coil connected to a battery (the compasses show the presense of the field).



KG4OCD with his award winning demonstration. Below, KG4TFY tries to beat a magnetic field.



Her hypothisis was that the signal would not reach its destination. Her conclustion: the signal was distorted by the field, but not so much that it didn't get to the receiver a half mile away.

NORTH CAROLINA

REPORTED BY
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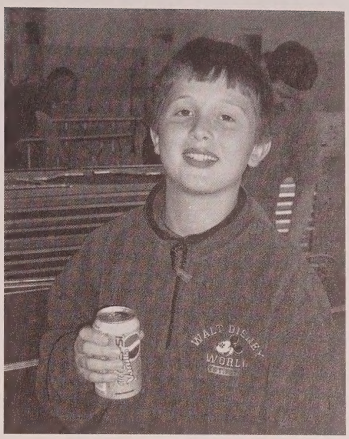
On May 2, 2004, the **Western Piedmont ARC** supported the **May Day Biathlon Radio Communications** at Freedom High School in Morganton. In addition, the club has a new call sign, W4YIU, in honor of Mayo Hefner, a long time club member who passed away last year.

The **Forsyth ARS W4NC** sponsored the **2004 North Carolina QSO Party** and in the single-operator category, Jim K4MA from Wake County soundly took the Single Op plaque in his first NCQP. Second place was fellow Wake county op Steve WA3TMR using the 1X1 N4C. Third place was Gary W2CS/4. In the Club category, it was the Randolph ARC taking the plaque with the Pitt County ARES/Brightleaf ARC group NC4PC taking 2nd place. Third place goes to the Tri-County ARC from Guilford County. Special thanks goes to the NI4BK group for activating the USS North Carolina in Wilmington. The mobile category had 11 stations hiting the road for this year's contest, and the results were amazing. Top honors go to Ron AA4S who made an amazing 680 q's operating mobile. Jeff NY4N was a close second with 653 q's. Coming in third was the KA4NWS team of Sally and Kevin. Mobiles make this event one of most exciting QSO parties around.

The **Durham FM Association** has an excellent looking website and it noted that Dave N4UBH reported the antenna project at the Red Cross is 90% complete. Coverage with the new antennas is even better than had been anticipated. Also, Mark W4CHL presented information on the Cybego, a portable PDA that can be used for APRS.

The Cary Amateur Radio Club will be sponsored their Mid-Summer Hamfest July 12. This year the club will be had the flea market in a covered parking garage and increased parking availability.



Brand new ham Bennet Vass passed his exam at the ***Winston-Salem hamfest*** *and became KG4FUY. The hamfest had indoor space available this year, which of course guaranteed beautiful weather outdoors.*

The **Azalea Coast RC** operated Field Day from Ogden Park in New Hanover County and two New Hanover County Commissioners joined them for Field Day. Nancy Pritchett and Bill Caster sent a thank you note for a most informative outing and made

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Hamfest Mailing Address
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2583 Nix Creek Rd.
Marion, NC 28752

note of everybody's patience with nontechnical individuals. The commissioners were fascinated with the equipment and the range of contacts and noted that the New Hanover County is blessed with wonderful volunteers that have such an influence on our community's quality of life.

The **Kinston ARS** Field Day Chairperson, Gene KA9DGI stated FD operations would occur at the Snow Hill Fire Department. Russ WA4POD made the arrangements for the mobile command post "bus" and ladder truck to support the dipole antennas. Jane KD4JNZ and Jean KB4OHX will be putting together a seven-course, crystal, silver and china dinner for the evening meal.

The **Alexander Amateur Radio Association** (ARES/RACES) participated in Field Day at the residence at 252 Liledoun Rd. in Taylorsville.

Durham County ARES/RACES is looking for an EC since KB4WGA is retiring after almost 20 years. There are responsibilities, duties and relationships with the ARRL, local government and the state ARES that the new EC will need to learn and develop. The requirements for ARES EC/RACES Radio Officer are that you be a Licensed Amateur radio operator with a General Class or higher license. The EC must also be a member of the ARRL. The Durham EC must live in Durham County. The EC is the key contact for and the face of Durham ARES. If you would like to be considered for the position of Durham EC Please drop John a note at KB4WGA @ARRL.NET, or US Mail to KB4WGA, 300 Barclay Road, Durham NC 27712

The **Greensboro Amateur Radio Association** played an important roll last week for the annual Wrangler-McDonald Soccer Tournament held in Greensboro. This is an annual event that involves hundreds of youth soccer participants, requiring communications between sites for calling in scores. This was the 25th annual tournament with Amateur Radio participation.

Looks like the **Johnston ARS** (JARS) bunch had "a most excellent" time at Dayton this year (Probably due to the Johnston County "Peach Juice"). If you get a chance, head up north with these boys, but be sure to bring many of aspirin and bail money.

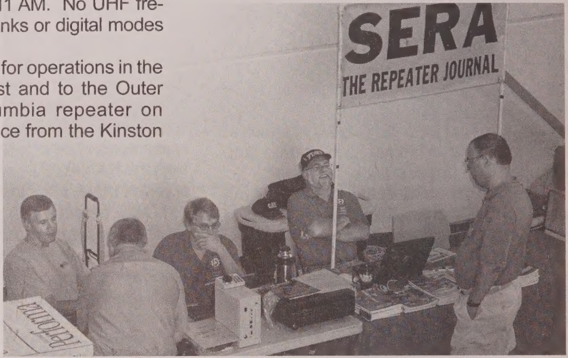
On Monday, May 10, the **Eastern Branch EOC** held a radio communications exercise. The purpose was to exercise the present radio communications in addressing the strengths and weaknesses of the system. W9EF and N4USB operated HF on 3923 kHz and the following 2-meter frequencies: 146.835, 146.88, 147.09, 145.47, and 145.21, from 9 until 11 AM. No UHF frequencies, repeater links or digital modes were used.

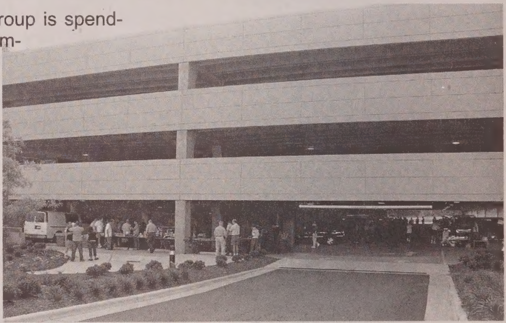
The key repeater for operations in the North and Northeast and to the Outer Banks is the Columbia repeater on 146.835. The distance from the Kinston EOC to this repeater is at the threshold of its coverage. A UHF repeater in Kinston linked directly to the Williamston and Columbia repeaters is in the works to solve the problem.

The **Onslow County** group is spending money to revamp and improve their prime repeater in Jacksonville. This will allow direct communications on VHF. Extending the coverage to Pender County and to Wilmington can be accomplished through the linking process.

NC Emergency Management's **Eastern Branch** has been very helpful and supportive of the amateur community. To accommodate the operations of the radio room, funds have been expended to support the ongoing logistics of this amateur operation. Time has been spent in meetings and conferences. The amateur radio community is a team player and will support the efforts of our state, its organizations, and its communities to their fullest, according to Ron Knapp W9EF, ASEC for North Carolina, Eastern Branch.

The *Repeater Journal* wants your club news. Put me on your mailing list for paper, web or pdf newsletters, or send me items direclty: wa4ke@sera.org. ■



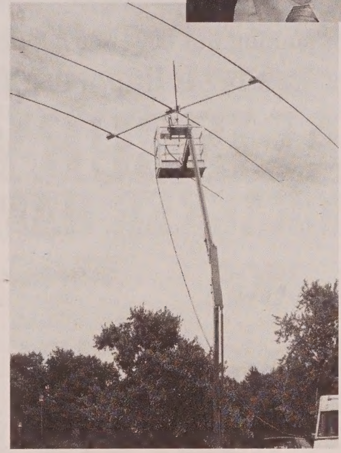


*A Frankless job: the SERA Team at the **Cary Hamfest** is WA4KE, NY4S and K4HA. W4FAL was on family leave. Below that, the new parking deck provided welcome shade to the flea market.*

Thanks to all our friends for making the 2004
Winston-Salem Hamfest
one of the best ever! We'll look for you next year!

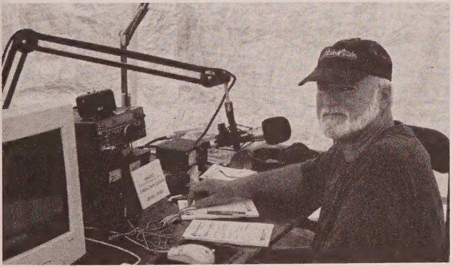
W4CC North Carolina Field Day Tour

John Covington W4CC, the ARRL Section Manager for North Caroina, headed northeast this year, visiting Field Day operations from the Triangle to the Coast. Here are pictures from three of the sites he visited.



The GOTA station at the Tar River Amateur Radio Club in Rocky Mount reignites the spark for former ham Charlie Overcash (below), who says there's a new ham license in his future. That's what GOTA – Get On The Air – is all about. The club also sported a beam on a cherry picker.

The Orange County Radio Amateurs (OCRA) operated from the county's Emergency Management Unified Command bus near Hillsborough, with an antenna well in the air on a cherry-picker.



Teamwork at the Cape Fear Amateur Radio Society (CFARS) in Fayetteville as club members take down one of their beams

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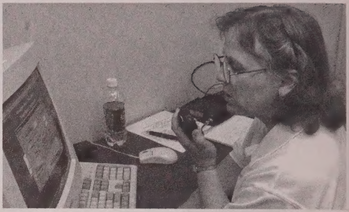
GARA
Greensboro Amateur Radio Association

Photos by Tom Forrest N4GVK



Left: Ann Gibson N4AIG and Allen Bradley, KD4IUN man "Soccer Control".

Above: Allen's XYL, Madeline KD4SVJ, receives a score via radio from a game site.

The Greensboro Amateur Radio Association played an important roll during the annual Wrangler-McDonald Soccer Tournament on May 29-30. This annual event involves hundreds of youth soccer participants, requiring communications between sites for calling in scores. This was the 25th annual tournament with Amateur Radio participation.

Below: Richard Love KD4TB, Bob Mays KE4MOW and Al Allred K4ZKQ man communications at Jaycee Park.

K4ZKQ
HAM WATCH
NORTH CAROLINA

Thanks For Making Our 2004 Show a Great Success!
Get Ready - It Happens Again
SALISBURY (NC)
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Same Place - Same Times!
Same Great Food & Fun
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The Raleigh Amateur Radio Society says:
Thanks for a great RARS*Fest* 2004!
Mark your calendar for April 17th, 2005.
RARSFest '05 just wouldn't be the same without YOU!

RARSFest
Hamfest & Electronic Flea Market
Sunday, April 17th, 2005
8:00 am to 4:00 pm

Southeastern Repeater Association SERA Member
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ARRL
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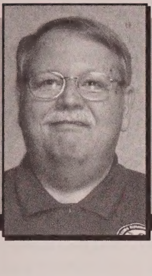
www.rars.org/hamfest

- RARSFest Supper Saturday Night
- VE Exams
- Special Interest Forums
- Homebrew & Operating Contests
- 100,000 Sq. Ft. Indoor Fleamarket
- QSL Checking
- Hamfest Prizes
- Dealer Space
- Free Parking
- NC State Fairgrounds, Raleigh, NC



SOUTH CAROLINA

REPORTED BY
ROGER GREGORY W4RWG
102 PARTRIDGE RD.
UNION, SC 29397
(864) 427-1462
W4RWG@SERA.ORG

Hello South Carolina,

A lot has happened here in Union since my last article. My daughter got married on April 24th and the house sure seems empty. Sheriff Wells was re-elected in June and I have a job for another four years. Jim WJ4C, his wife Pat K4PLC, my wife Kathy and I attended the SERA board meeting June 12 and 13 in Tennessee. We had a good meeting and we conducted a lot of business. We had one of the highest attendances by SERA officers that I can remember.

Bob Myers KN4AS/AAR4KZ passed away April 19. He was past SC State Director of Army Mars. In 1992 Myers was hired by the South Carolina State Government as Chief of Communications for the State Emergency Preparedness Agency. Bob was well known across the State as Communications Director for the Dept. of Transportation. My sympathy goes out to his family.

The Anderson Radio Club provided communications for the fourth consecutive year for the Clemson Tri-Athlon. Those that helped were: Jerry KD4PJO, Jimmy WD4BUH, Al WA4JWC, Leon KE4HZN, Steve N4SZ, Grayson WB4RSU, Randy KB4ALH, and Jim KD4HEY. I extend my sympathy to Les Shattuck K4NK as he deals with the passing of his father. The ARC holds a net each night on the 146.79+ repeater at 8:30 pm local time.

The Blue Ridge Amateur Radio Society welcomes new members Joy Dickert KI4DWN, Vic Gallo WA2PJZ, Matt Andrews KF4NXS, Steve Olson KB0KBJ, Pat Oshields KI4DWJ and Matthew Hinshaw KI4DOQ. **The Upstate Hamfest** was a success even with the rain. WJ4C and I attended and we appreciated the table donated for SERA. We'll have a date for the 2005 fest in the November *RJ*. The **Greenville WCARS VE team** gives exams the first Saturday of each month at the Red Cross Building on Grove Road. The contacts are John Chism ND4N or Sue Chism N4ENX at n4enx@mindspring.com.

The Chester Amateur Radio Emergency Services Club held their annual tailgate party at the Chester State Park on June 19th. I sold several new and a couple of renewed memberships with SERA.

Election of club officers was held at the June meeting with the following results: Joel Shockley K4TDG-President, Bruce Pistole N4VVX-Vice President, Danny Carns KI4DC-Secretary/Treasurer.

The Columbia Amateur Radio Club has had several presentations at their meetings. Mike Winkler KI4CRS gave a presentation on antennas, baluns and feed lines. Ike James N4BMW gave a presentation on packet radio. Ike has been a ham for 12 years and has many years communications experience with Army Mars serving as Digital Mode Specialist. He has served in the past as ARES Emergency Coordinator for Richland County. Congratulations to Ken Kasper N2IZZ for upgrading to Extra.

The Florence Amateur Radio Club provided communications for the MayFly held at the Florence Airport on May 1st and 2nd. The FARC meets the 1st Tuesday at 7:30 at the Western Sizzlin in Florence. Eating starts at 6:30 with the meeting following at 7:30.

The Greenwood Amateur Radio Society elected new officers at their June 21, 2004 meeting. The new President is Brad Dukes WB4TRF, Vice President Earl Powell KC4AXY, Secretary Eldore Keck KB4YON, Treasurer Harvey Hill WB4KXE, and activities chairman Dave Zugsberger KL7FO.

The Laurens Amateur Radio Society again this year participated with Field Day activities. The LARC usually places rather high nationally in the 1A category. Invitees included Sheriff Ricky Chastain (my wife's cousin), Representative Mike Pitts of District 14 for Laurens County, and Emergency Preparedness Director for Laurens County Larry Hall. Thanks to Jim White, the LARS used an air conditioned RV for Field Day headquarters. Let me know the results.

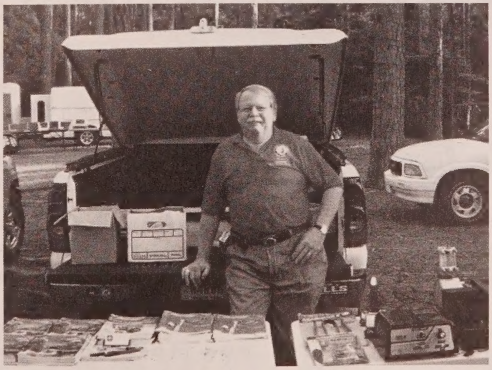
The Palmetto Amateur Radio Club meets the third Monday each month at the Pioneer Career Center Room 1800 on the second floor of the new Bell Building. Meeting time is 7:30 pm. Send me your news!

The Pickens County Communications Group held Field Day at Mile Creek State Park. They operated in the 5F class. They had plenty of food and fun. For more information on the PCCG, look at www.qsl.net/wb4qhf. Send me some news.

The **Spartanburg Amateur Radio Club** congratulates Barbara Mattson KA4UIV who was named South Carolina's Single Sidebander of the year by the South Carolina Single Sideband Net. Congratulations also to Mike Thompson for his upgrade to General, completing the code and written test in the same testing session. Good job Mike! Fritz W4NTO is having problems with squirrels again; they are eating the rotator wires. I see Fritz has been working on my friend Billy Burdett K4NJS's antenna. Take care of Billy, Fritz!

The Sumter Amateur Radio Association Field Day event was held at Dillon Park. Field Day this year organized by Warren Floyd KE4SES was a great success. Never were the radios unmanned. Over 500 contacts were made. The SARA has a new Vice-President: congratulations to JT Mitchum W4CRZ. JT will be filling the unexpired term of Gale Wilkinson who resigned. The **SARA VE Team** holds VE testing the 2nd Saturday of odd-numbered months. Join them on their Sunday night net at 8:30 pm on the 147.015 repeater.

The Union County Amateur Radio Club welcomes a new Technician Class Amateur, Benji Fleming KI4GEV. Benji is the local Radio Shack Manager. Congratulations Benji, I hope you get as much enjoyment from ham radio as I do. The **Union WCARS VE Team** holds exam sessions the 2nd Thursday in January, March, May, July, September, and November at 7 pm in the Union County 911 Center training room on North Pinckney Street in Union.

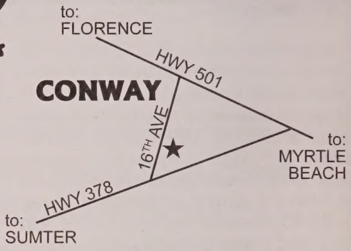


Hamfesting the way it's supposed to be - Roger is set up out of the back of his car, parked under the trees at the Chester Hamfest

Grand Strand
Amateur Radio Club
Myrtle Beach, SC
Presents:

12th Annual Grand Strand
BEACHFEST
Saturday, October 30, 2004
8 AM until 2 PM
(Vendor setup 6 AM)

Talk-In: 145.110



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GUARD ARMORY
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Admission: $5 (under 12 free)
Inside vendor tables: $8
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Free Parking
VE Testing at 10 AM

Info: Jim Wood (843) 238-0800 ♦ KF4CJE@w4gs.org Web Site: www.w4gs.org

The 32nd Annual and Original
CHARLESTON
HAMFEST
AND COMPUTER SHOW
SATURDAY, FEBRUARY 5, 2005

__Special Guests__: The FCC's Special Counsel for Amateur Radio Enforcement, Riley Hollingsworth, K4ZDH, and ARRL's SC DXCC Card Checker, Gary Dixon, K4MQG, will be attending.
__Notice__: This Hamfest is considered a family affair. The committee reserves the right to eject any inappropriate materials from the premises.
__Prizes__: $400, $200, & $100 cash. Door prizes during the day. __Activities__: Forums and Bingo.
__Food__: World Famous C.A.R.S. Dogs and BBQ Sandwiches. __Volunteer Exams__: On site at 1:00 pm.
__Admission Tickets__: $5.00

Exchange Park Fair Grounds, Ladson SC
I-26 at Exit 203
Acres of Free Parking
Talk in - 146.79, 145.25, and 147.045
Doors open at 8:30 am
See more details at http://www.qsl.net/wa4usn
or contact Jenny Myers, WA4NGV
2630 Dellwood Avenue, N. Charleston SC 29405-6814
(843) 747-2324 or email: brycemyers@aol.com

Charleston Amateur Radio Society Inc.
Charleston, SC
email: WA4USN@AMSAT.ORG

Contact Jim WJ4C for information, wj4c@charter.net

The York County Amateur Radio Society announces the death of Archie Wallace Killough Jr. KE4NJP on June 5. Archie was a very special member of the club and will be missed by all. Our deepest condolences go out to all of his family.

Marc Tarplee N4UFP was the Field Day Chairman for YCARS this year and did an outstanding job. This year's Field Day was also chosen as a time to honor Life Members Tom Lempicke AB4YV, Paul Mahan AD4CK, Royce Goodwin WA4AFE, and Pete Krenn KC4ZY. Congratulations to all!

The YCARS welcomes new member Tony Grant AI4EW. Tony resides in York.

All members who have participated in various activities this year, such as the Come See Me Bicycle Race, the Benefit Barbecue, SkyWarn activities, and the yard sale were invited to the Volunteer Appreciation Picnic. The annual picnic is sponsored by the York County Council, and included a Charlotte Knights game for the members and their guests. This is the second year that YCARS volunteers have been invited to this event. Congratulations to Lonnie Hall W4LON and to his wife Connie K4CON on their recent upgrade to General Class License. Congratulations also to James Duncan KG4MMS for passing his code and received his General Class License.

Sorry, there was no news received for this issue from the **Salkehatchie Amateur Radio Society, The Myrtle Beach Amateur Radio Club, or the Charleston Amateur Radio Club.** Please send me your news.

Newly Coordinated or Proposed Repeaters in South Carolina.

AG4GW	443.000	Cheraw	Proposed
WD4CW	442.425	Newberry	Proposed
KE4RAP	444.800	N. Augusta	Proposed
KF4GHC	444.200	Lexington	Proposed

Attention South Carolina Repeater Owners. Are you a SERA Full Member? I would like for you to consider joining the SouthEastern Repeater Association. The cost is only $20 per year. Send your full membership dues in today. Let's make South Carolina 100%. SERA needs your support and with full membership not only will you support the SouthEastern Repeater Association, you and your designee will receive the *Repeater Journal* for as long as you are a full member. What a deal!

Would you like to see news from your club in the *Journal?* It's easy! Tell your club secretary to make sure I am on their newsletter mailing list.

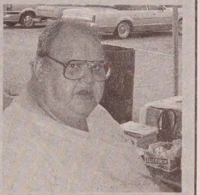
73 Roger Gregory W4RWG
President, SC Director

W4DBH, SK

Roger Gregory W4RWG

It is with deep regret that I announce the passing of Dewey "Bill" Hembree W4DBH. Bill died May 29, 2004 at his Cross Anchor home in Spartanburg County, SC. Well known in the Upstate for his fondness of AM and working the local repeaters, Bill was a member of the Union and Spartanburg Amateur Radio Clubs. When he was able, he attended most of the hamfests in South and North Carolina.

Bill and his wife "Net" KF4YQT always brought their motor home to the Shelby Hamfest, and it became a gathering place for hams from Union and Spartanburg to rest, cool off, and eat. Shelby will never be the same.



Bill was a big man with a big heart and someone that you just liked to talk to. I will always remember his sense of humor and his recognizable laugh. He was my friend; I shall miss him a lot.

Roger Gregory, W4RWG

ROCK HILL HAMFEST

NEW LOCATION!

SATURDAY, OCTOBER 2nd

at Rock Hill American Legion Post 34
& York County Fairgrounds
199 South Cherry Road, Rock Hill, SC

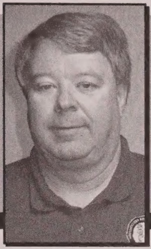
- *INDOOR AND OUTDOOR MAJOR DEALERS*
- *ARRL and TECHNICAL FORUMS*
- *GIANT PAVED OUTDOOR FLEAMARKET*
- *VE TESTING, 10 AM*
- *Featured Dealer: COMMUNICATIONS HEADQUARTERS, Wilmington, NC*

Admission and Unlimited Outdoor Flea Market Space: $7

Grand Prize: Icom 2100H - many more!

Gates open at 6:00 AM ● Talk-in on 147.03 -600
Van's Famous Barbecue Lunch

For further info: Bob Bacharach - (803) 327-2634 wa2emf@arrl.net



TENNESSEE

Reported by
Bob Gault KD4NEC
221 Cedarwood Trail
Cleveland, TN 37312
kd4nec@sera.org

The Tennessee SERA District welcomes Alan McClain KA4BNI as a new Assistant Director and Frequency Coordinator for the western third of the state. Alan's contact information appears on page 2. He gave us this background information:

> My name is Alan McClain and I'm 40 years old, born January 25, 1964. I attended Dresden Elementary & high school, and the University of Tennessee at Martin. I served in Law Enforcement as a dispatcher from 1984-1986 and as a Police officer for the cities of Union City, Dyersburg, and Dresden, TN. from 1986-2001.
>
> I am currently employed by the Tennessee Department of Safety as a Radio Communications Technician III. We operate transmitters on VHF low band, high band, UHF and 800 Mhz, and I maintain a fleet of 100 Tennessee Highway Patrol mobile units, 4 tower sites, and 1 dispatch center for the Jackson District.
>
> I entered the amateur radio service in 1979 as a Novice, upgrading to Technician class in 1995 and General class in 1996. I maintain my code proficiency of 10-15 wpm as well as keeping up to date on current rules and regulations.
>
> I've constructed and maintain a linked system of six 440 repeaters in West Tennessee known as the "West Link" system, and I work with local clubs on the repair and maintenance of their repeater systems. I'm also active in APRS, and maintain three Digi's in West Tennessee.
>
> I'm the local ARES Emergency Coordinator for Weakley County, as well as the ARRL Technical Specialist for the North West Tennessee region. I participate in the annual Field Day exercise, and I am a current member of the ARRL. I enjoy repeater work, packet, DX, satellites, and digital modes. ■

In the May issue of the *Repeater Journal* we confused the callsign of Silent Key Tom Park WD4KWP. The headline incorrectly listed Tom's callsign as WD4KWM.

Clarksville Amateur Transmitting Society & KF4L
1954 - 2004
Celebrating 50 Years
with the A.R.R.L.

CLARKSVILLE HAMFEST

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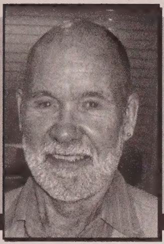
Saturday, October 23, 2004 8:00 a.m. – 2:00 p.m.

Clarksville Amateur Transmitting Society, Celebrating 50 yrs. with ARRL.
Come see old friends and make new ones! Admission $5.00 (age 12+)

Clarksville Fairgrounds Pavilion,
Hwy 48/13, Clarksville, TN
Talk-in:147.39 + KF4L Repeater
Info: KT4FQ@charter.net
www.qsl.net/kf4l

Mail Check or M.O. to: Clarksville Amateur Transmitting Society, P.O. Box 30584, Clarksville, TN 37040

Advance Tickets (Postmark by 10/7/04)
Name ______________ Callsign ________
Address ____________________________
City ______________ State ____ Zip ____
___ Advance Tickets @ $5.00 $________
___ Pavilion Tables @ $10.00 $________
Total Enclosed $________



VIRGINIA

REPORTED BY
FRED WEAVER KG4BKI
PO BOX A
ZUNI, VIRGINIA 23898
757-242-9066
KG4BKI@SERA.ORG

250 Mile Field Day

Field Day began in Podunk with rain. This was not a good sign for the planned event we called Digital Connection Day. The idea behind this event was to get some additional Hams working on the digital modes. VHF packet was our primary focus, but we were prepared to work HF also. Our cooperating group was the **Franklin City Police Department.** Since packet is an important Emergency Communications mode in this area, we are always looking to get hams working this mode with their home stations.

Our location was "in a public place"; next to the entrance of Wal-Mart. The police emergency communications 'bus' attracted a lot of attention. "Is there an emergency?" was a frequent question. "Nope, just practicing."

Turnout was small, but enthusiastic. We confirmed that a police HT (tuned to 145.730) will operate packet using a sound card and interface. Also limitations of same setup were learned. Great fun! Thanks to FPD for their support.

The event in Franklin concluded at 4:00PM so I had the rest of FD to travel around to other sites. First stop was at the site of the **Virginia DX Century Club**. Their setup was in the spacious front yard; with convenient tall trees of Al K4UX. I knew some of the members of this group as I had provided a program for one of their club meetings. They were operating one CW station and one SSB station. They also had a GOTA station operating from an HF mobile rig in the driveway.

Always happy to spread the word about my favorite sound card program, MixW; I encouraged KG4RIC to load it and monitor digital activity in all the modes. When I left the site, they had copied the FD message in RTTY and switched to AMTOR FEC to get a backup copy.

On Sunday I left Podunk and journeyed to the FD site of the **Williamsburg Area Amateur Radio Club (WAARC)**. They were on a great site at Brickyard Landing overlooking the Chickahominy River. They had one SSB station and one CW station. They were using the club call of K4RC. By Sunday the operators and loggers are happy to give up their seats to a relief operator. We went to 15M and worked every station we could hear – all six. We even got 3 stations to come back to our CQ on that band.

Williamsburg had the distinction of using batteries as their emergency power. Nice, very quiet!

Then your intrepid correspondent heads south on US 60 to the site of the **Peninsula Amateur Radio Club (PARC).** This group gets the award for the 'most public' for the set up in a public place. They were on Warwick Boulevard in Newport News in the Mariners' Museum Park. They even had a billboard on the street. Theirs was a one CW/one SSB setup. They had used VHF SSTV as their demonstration station.

Further south I visit the station of **Southern Peninsula Amateur Radio Klub and Peninsula Electronic Amateur Radio Society**. They have a four station set up in a 35 foot motor home. The emergency power is a very smooth genset. They have an impressive antenna array that included beams and rotators. They operated as KC4F.

Every site that I visited had CW operations. Only one had HF digital operations, CARS, and they were only able to copy digital modes. Both Williamsburg and the SPARK/PEARS groups had done a great job of getting local press coverage.

73 bki>

bki - on the side:

Paper Repeaters and a Dose of Humility

Well, seems that I keep running into the 'paper' repeater thing the same as my SERA colleagues. Hams get testy when they cannot get the frequency or the frequency range that they want because it may interfere with what they know is a long standing paper repeater. Now, I know that site arrangements fall through, funding arrangements fall through, equipment donations fall through – Murphy's Law works for Hams too!

In the spirit of Amateur Radio co-operation, let me suggest the following: If you have not been able to put your coordinated repeater frequency on the air within two years – turn it in. If you think about it, when folks turn in the coordination, more spots are available and it will be easier to get a coordinated frequency when you re-apply.

On visiting a FD site, I introduced myself. "Hi, I'm KG4BKI your Repeater Journal Correspondent." Response. "What's the Repeater Journal?" Sez I, "It's the Journal of SERA." Response. What' SERA? Sez I, "SERA is the largest repeater coordinating group in the USA." Response. "Really?"

A dose of humility.

I am now the trustee of the 444.825 in Franklin. I'm thinking this experience will help me to be a better RJ correspondent. No 'paper' here; this puppy is going up! Using the tax exempt status of Virginia RACES, Inc. and the Franklin Police Department a grant was obtained to purchase all new equipment, hardline, remote base radios – the whole thing. A repeater covered by warranty.

bki>

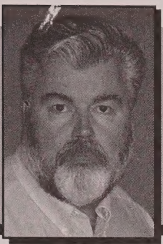
[While Fred may suggest a generous two-years of paperosity... which is better than the track record of a lot of paper repeaters... SERA's CP&G's allow for 6 months, with a six month extension, and require the owner to notify the coordinator of status using SERA Form 9 - KN4AQ]

FIELD DAY 2004

Ben KG4WUJ and daughter Cynthia always enthrall their audience at the CARS Field Day site.

Eating dinner at W4DZ. Gourmet dining and Field Day, could it get any better?

Bruce KG4QUQ is Digitally Connected!



WEST VIRGINIA

REPORTED BY
Richard Clemens KB8AOB
102 Hickory Street
Buckhannon, WV 26201
304-439-1248
kb8aob@sera.org

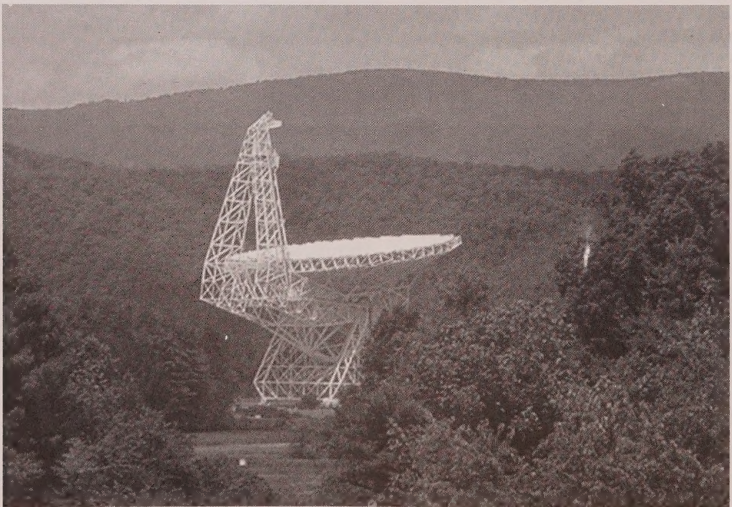
Radio Astronomy and Antenna Systems

As hams we all know the importance of a good antenna system. Trying to copy distant signals or understand a message from the fragments received is always a challenge. We go to great lengths to build or purchase an antenna that is well matched for the band and mode of interest, not to mention taking care of feedlines, grounding, SWR and potential threats such as lighting. Even with today's amateur often taking the "appliance approach" when acquiring a new rig, the antenna system often continues to be a home-brew affair.

I know I have built several antennas over the years including simple HF dipoles, inverted V's, and assorted J-poles for VHF and UHF. Perhaps the reason so many hams build their antenna system is because it is relatively easy to do and is certainly less expensive (after they may have already spent too much on the rig).

It should come as no surprise that ham radio has been a close partner in the development of antennas for Radio Astronomy as we know it today. It was a ham that was interested in the early efforts of Karl Jansky in trying to identify the source of static that interfered with shortwave radio telephones.

Jansky's work in the late 1920's and early 30's led to an important discovery that was largely ignored for many years. Jansky, in his quest to better understand the source of the static, hit upon the idea that the noise was actually arriving from outer space. The idea was the result of data he collected with a special antenna (a model of which is on display at Green Bank, West Virginia) that was able to rotate and was designed to receive at 20.7 MHz. He first thought it was from the sun, but then realized it was aligned with the sidereal day and the source appeared to originate from the constellation Sagittarius. His discovery was reported in scientific journals and was front page news in the New York Times on May 5, 1933.



The Robert C. Byrd Green Bank Telescope

Unfortunately Jansky did not have the interest or health to further his work, but all was not lost. Jansky's discovery caught the attention of Grote Reber W9GFZ.

Grote Reber unsuccessfully tried to use his shortwave receiver to locate the source and in 1937 built a 31 foot diameter fully steerable dish antenna. Reber's original dish antenna is on display at Green Bank just across the entrance road from Jansky's antenna. Reber's dish antenna became the first and only radio telescope until after World War II.

Fortunately, with Reber's interest in radio and the progress of electronics and radar from the war effort, the field of Radio Astronomy advanced rapidly. In 1957 Reber accepted a position at the National Radio Astronomy Observatory (NRAO), Green Bank, West Virginia, where a radio telescope 140 feet in diameter has just been completed.

Reber left Green Bank after a few years and returned to the Commonwealth Scientific and Industrial Research Organization in Tasmania, Australia to continue his research in radio astronomy. Tasmania provides a near perfect site for the reception of very long wave radio signals.

Grote Reber became a silent key in December of 2002, but his call sign continues today with the NRAO Amateur Radio Club.

In November of 1988 a 300 foot radio telescope at Green Bank "collapsed due to the sudden failure of a key structural element – a large gusset plate in the box girder assembly that formed the main support for the antenna." The Green Bank Telescope (or GBT for short) was built as a replacement and was completed in August 2000. This new radio telescope is the largest fully steerable radio telescope in the world and has been instrumental in a number of scientific investigations. Just recently the discovery of "two new molecules in an interstellar cloud near the center of the Milky Way Galaxy" was completed using the GBT.

Radio Astronomy is just an extension of what amateur radio operators love to do—listen for signals from distant locations! As a ham, Grote Reber recognized the importance of Jansky's discovery and "the accidental discovery of cosmic radio emissions was a direct result of radio amateurs' success in developing shortwave communications." Even today the connection between radio astronomy and amateur radio remains strong as you will find nearly ten percent of NRAO employees are amateur radio operators.

I would like to thank **Mo Kittle AD8T** of Elkins, West Virginia for the suggestion to include information regarding the Green Bank National Radio Astronomy Observatory on these pages. If you have never visited Green Bank it is well worth the trip. No only will you view some of the finest antenna systems in the world, but at the same time you will witness some of finest country in the world. The Green Bank NRAO web site (www.gb.nrao.edu) has a complete set of directions including information on other attractions in the region, such as Cass Scenic Railroad. I also want to credit the NRAO web site for the quotes in this article

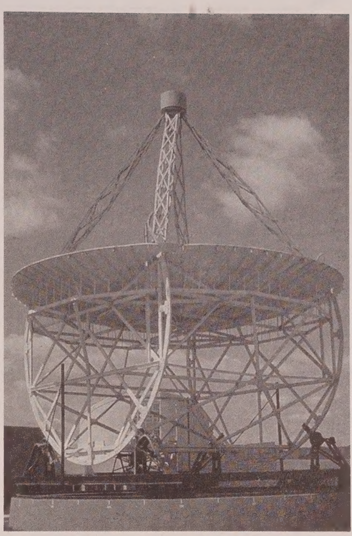
WEST VIRGINIA, I NEED TO KNOW...

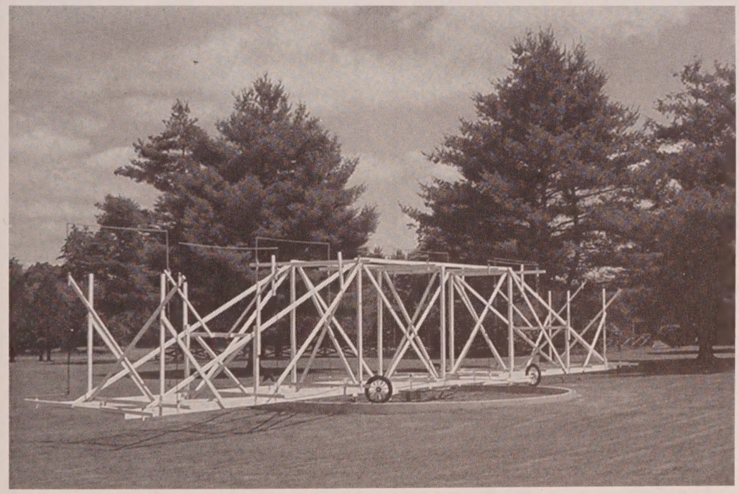
I appreciate the news and reports that have been sent the last several months and hope many clubs and other groups will continue to send items for the SERA *Journal*. I need to know what your club is doing and about any upcoming events in your part of the mountain state. Are their any new repeaters that are on the air or changes in current systems? This column is about *you* but the only way I will be able to report the news is if you send it to me! Just use the address above to send me a story or images and I will try to have them in the next issue. ■

WV REPEATER UPDATE

I am pleased to report a number of new repeaters that are active or pending in the southern portion of West Virginia during this year. Hats off to *all* the owners and operators of these and existing systems:

Location Trustee Call	**Rpt. Tx On Air?**	**Rpt. Rx**
Chapmanville Criss Heston W8CH	442.475 pending	447.475
Cross Lanes Michael Moore KC8RRI	444.400 pending	444.900
CullodenTravis King KC8POU	53.030 pending	52.030
Kenova Jason Parsons KC8PFI	443.600 yes	448.600
Kenova Jason Parsons KC8PFI	53.870 yes	52.870
Lewisburg Alex Hendrick N8FWL	224.140 yes	222.540
Logan Paul Fortune NV8H	444.900 pending	449.900
Oak Hill Plateau ARA	147.075 yes	146.475





Above: the Grote Reber antenna.

Left: the Karl Jansky antenna.

Both are on display at Green Bank NRAO in West Virginia.

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For other information including test session coordination, VE Team Formation, etc.:

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2138 Sonning Drive
Germantown, TN 38138
901 754-4552 WinGuin@bellsouth.net

Ray Adams, W4CPA
6702 Matterhorn Ct. - Knoxville, TN 37918
(423) 687-5410 Fax: 219-9871

Norman Harrill N4NH
7 Skylyn Court Asheville, NC 28806
704 253-1192
NormanHarrill@worldnet.att.net

~~John Chism ND4N~~
139 Mustang Cir. Simpsonville, SC 29681
864 967-0001
nd4n@mindspring.com

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SERA **Repeater Journal**

The Official Voice of SERA, Inc.

Advertising Sizes and Rates

Effective May 1, 2003

Full Color Covers 8.125 x 10.75" (+.125 bleed)	$425
Full-Page 7.25 x 9.875"	$160
Full-Page Bleed 8.125 x 10.75"(+.125 bleed)	$185
"Page 1" (1st inside page, spot color)	$250
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1/6-Page (H) 3.5 x 3.0"	$36
1/12-Page (V)2.25 x 2.5"	$20
Spotlight Page 2.25 x 1.125 (4 Issues)	$30
SPOT COLOR (each ad/page)	$50
SPOT COLOR (Dbl 2-pgs side-by-side)	$50

2nd Color ususually bright Red with black

INVOICING & AD INSERTION ORDERS

DEALERS: Quarterly dealer invoices, after insertion, will request information pertaining to future insertions. If no instructions on the *paid* returned invoice copy are received, the ad will be *repeated* and invoiced the upcoming quarter.

HAMFEST: Advertising must be ordered each edition for insertion. Payment must accompany insertion order/advertising copy for Hamfest ads.

ADVERTISING PAYMENT POLICY

ADVERTISING INVOICES are due upon receipt. Unpaid invoices will require us to withhold publication of any additional ads until account is paid in full. First time advertisers, hamfest advertising and Spotlight Page advertising is to be paid in advance - Please submit check with order.

SPECIFICATIONS & GENERAL

ADVERTISING SIZES are listed above. Ads that do not fit dimensions will be adjusted at no chage.

We can take camera-ready positive photoprint, pasteup or Laser print ad copy or appropriate electronic transfer (call first for this means).

FULL COLOR COVER ADS, when available, are to be sized for full 8.125 x 10.75 + bleed. 150 Line screens preferred. Must be submitted on CD in a digital format capable of being used by our printer. Color Match Proof, Color Key or Pre-printed tearsheet should accompany.

INSIDE DISPLAY ADS - Design, typesetting & layout is available at no charge for advertising to be run in the *Repeater Journal.* Adobe Acrobat PDF Proofs are available for ads that we design.

The *Repeater Journal* cannot be held liable or responsible for errors in advertising, or to the quality or accuracy of advertising claims.

WHERE TO SUBMIT ADS

All advertising copy and insertion orders should be sent to the Journal Advertising Department:

Mike Lewis WA4KE
Repeater Journal Advertising Manager
3401 Apple Meadow Dr.
Fuquay-Varina, NC 27526
919.552.9118 h 919.549.1561 w
wa4ke@sera.org

AD & COPY DEADLINE DATES

Ad copy deadlines are normally the 1st of the month, prior to month of publication. The Repeater Journal cannot guarantee publication of any advertising that arrives after deadline unless prior arrangements are made with the Ad Department.

FEBRUARY *ISSUE* -	*January 1*
MAY ISSUE -	*April 1*
AUGUST ISSUE -	*July 1*
NOVEMBER ISSUE -	*October 1* ◄

SERA Repeater Journal
The Official Voice of SERA, Inc.

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2004 REPEATER FULL MEMBER APPLICATION

THE SOUTHEASTERN REPEATER ASSOCIATION, INC.

Providing voluntary frequency coordination for Amateur Radio repeaters in Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee, Virginia and West Virginia

Please fill out the this SERA Full Member Application completely. Be sure to list 2 persons as SERA representatives. **ONLY these two will have voting rights, and receive the *Repeater Journal*.** MAIL YOUR CHECK AND APPLICATION TO: SERA FULL MEMBERSHIP, P.O. BOX 215, TOBACCOVILLE, N.C. 27050. Deadline to be listed as member in Novenber 2004 *Repeater Journal* is October 1, 2004.

	CITY/ MTN. ETC. (MAX 14 LETTERS)	RPTR CALLSIGN	INPUT FREQ	OUTPUT FREQ
RPTR #1				
RPTR #2				
RPTR #3				
RPTR #4				

IF YOU NEED SPACE FOR MORE REPEATERS, USE A SEPARATE SHEET OF PAPER

NAME THE TWO PERSONS WHO WILL REPRESENT YOU AND CARRY YOUR VOTE AS A FULL MEMBER. EACH WILL RECEIVE THE *REPEATER JOURNAL*.

NAME ______________________ CALL ________
ADDRESS ______________________________
CITY ________________ STATE _____ ZIP ______
HOME PHONE #: ( ) ______________________
E-MAIL ADDRESS: ______________________
ARRL MEMBER: [ ] YES [ ] NO

NAME ______________________ CALL ________
ADDRESS ______________________________
CITY ________________ STATE _____ ZIP ______
HOME PHONE #: ( ) ______________________
E-MAIL ADDRESS: ______________________
ARRL MEMBER: [ ] YES [ ] NO

FULL MEMBERSHIP: [ ] NEW [ ] RENEWAL - ($10 FOR YEAR 2004 - 7/1/04 thru 12/31/04) FEE ENCL. - AMOUNT $________
REPEATER IS SPONSORED BY: (Name of Club OR Owner)______________________________
REPEATER TRUSTEE'S NAME ______________________________ CALLSIGN ____________
IF A 2002 SERA REPEATER DATASHEET WAS NOT RECEIVED LAST OCTOBER, INDICATE PERSON'S NAME AND ADDRESS TO SEND THE 2003 SHEET TO:
NAME ______________________________ CALLSIGN ____________
ADDRESS ____________________ CITY ______________ STATE ________ ZIP ________

■ **IMPORTANT NOTE: ONLY OFFICIALLY SERA COORDINATED ON-AIR, OPERABLE REPEATERS ARE ELIGIBLE FOR SERA FULL MEMBERSHIP.** An application for SERA Full Membership status, and the payment of the respective dues thereof, does *NOT* constitute coordinated status for the repeater(s) listed on this application or accompanying sheets. Contact your local coordinator to learn how to obtain coordinated status.

THANK YOU FOR YOUR GENEROUS FINANCIAL SUPPORT OF THE SOUTHEASTERN REPEATER ASSOCIATION, INC

Spotlight Your "STUFF" Here - $30 per Block/Per Year (4 issues)

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June, 2005
Bronco Club Annual Picnic
Pig Pickin' Picnic / Tailgating
Raffle for GPS unit
Program/ARRL Test Session
Talk-in 147.30 (131.8) / Info: stu.tyler@juno.com

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DOWN EAST HAMFEST
Kinston, N.C.
MARCH 21, 2004
Information - (252) 523-2703
THANKS FOR A GREAT 2003!

The SERA *Repeater Journal* Southeastern
HAMFEST/CONVENTION CALENDAR

Hamfest dates marked with an asterisk (*****) are ***not*** confirmed and are estimated from the previous year's date.

We urge hamfest sponsors to send their correct dates to the *Repeater Journal* editor as soon as possible (**editor@sera.org**).

We acknowledge and appreciate assistance in confirming dates from SERA & ARRL Directors, the ARRL, commercial dealers, and many clubs and individuals.

Deadline for November Issue is October 1st, 2004

AUGUST, 2004
1 .... 54th Annual Winchester HF, BERRYVILLE, VA
1 .... Land of Lakes Hamfest, ANGOLA, IN
7 .... Voice of Aladdin ARC HAM-OH-RAMA, COLUMBUS, OH
14 .... 6th Annual CFARS Swapfest, FAYETTEVILLE, NC
14 .... Ellijay ARS Hamfest, ELLIJAY, GA
14 .... TARA HF & Comp. Show, HUNTINGTON, WV
15 .... Central Kentucky ARRL Hamfest, LEXINGTON, KY
15 ..... Carroll County ARC Hamfest, WESTMINSTER, MD
21 .... Warren ARA Hamfest, WARREN, OH
21-22 .... Hamfest, AL Sec. Conv., HUNTSVILLE, AL
28 ...... Short Mt. Repeater Club Hamfest, LEBANON, TN
28-29 .... WV State Conv/HF, (Jksons Mill) WESTON, WV

SEPTEMBER, 2004
4-5 .... Shelby ARC Hamfest, SHELBY NC
11 .... Owen County ARA Hamfest, SPENCER, IN
11 *new location* Greater Louisville Hfst., LOUISVILLE, KY
11 .... Monroe ARS Swap Meet, MONROE CO., TN
11-12 .. *new(original)location* F.A.R.Fest, GAITHERSBURG, MD
12 .... Findlay Hamfest FINDLAY, OH
18 .... Paulding ARC Hamfest, DALLAS, GA
18 .... CAREN All Arkansas Hamfest, JACKSONVILLE, AR
18-19 .... VA Wesleyan, VIRGINIA BEACH, VA
18-19 ...... Chicago FM Club Radio Expo, GRAYSLAKE, IL
19 .... Greater Cinci ARA Hamfest, CINCINNATI, OH
24-25 ...... (Fri-Sat) TEN-TEC Hamfest, SEVIERVILLE, TN
25 .... Suncoast ARC Hamfest, New Port Richey, FL
26 .... Hamfest Assn. of Cleveland, CLEVELAND, OH

OCTOBER, 2004
2 ... *new location* York Co. Fairgrounds, ROCK HILL, SC
2 ..... Red Rose Rprt Assn Hamfest, BROWNSTOWN, PA
3 .... Hoosier Hills Ham Club, BEDFORD, IN
9 .... *date change* Nashville ARC Hamfest, SMYRNA, TN
9* .... Hamfest, STARKE, FL
9* .... ARC of Augusta, HF/Comp Show, EVANS, GA
10 .... Hamfest, MAYSVILLE, NC
16 .... NW GA ARC Hamfest, ROME, GA
16 ..... Greater Jacksonville Hamfest, JACKSONVILLE, FL
16 .. Oak Ridge ARC Hamfest, FOE Bldg, OAK RIDGE, TN
16 .... South-Side ARC Hamfest, GRANDVIEW, MO
23 ...... *date change* – CATS Hamfest, CLARKSVILLE, TN
23 .... HF at C.Jordan in E.Ridge, CHATTANOOGA, TN
23 .... Sumter ARC Hamfest/Comp. Fair, SUMTER, SC
24 .... BENTONVILLE, AR
30 .... Beachfest, MYRTLE BEACH (CONWAY), SC
31 .... Massillon ARC Hamfest, CANTON, OH
31 .... Mason-Dixon Hamfest, WESTMINSTER, MD

NOVEMBER, 2004
6-7 .... Stone Mt. Hamfest, LAWRENCEVILLE, GA
13 .... Hamfest at St. Fairgrnds, MONTGOMERY, AL
13 ..... Ft. Wayne Hfst/ARRL St. Conv., FORT WAYNE, IN
13* .... KY Mt. ARC Hazard Swapfest, HAZARD, KY
21 .... JARSFEST at American Legion, BENSON, NC
19-20 .. Jackson Co. ARA Hamfest, OCEAN SPRINGS, MS
21 ... Central IL/St. Louis ATV Banquet, LITCHFIELD, IL
27 .... EARS Hamfest, EVANSVILLE, IN

DECEMBER, 2004
4 .... *new location*- GAARC Swapfest, GASTONIA, NC

JANUARY, 2005
1* . Lakeway ARC 'fest, NG Armory, MORRISTOWN, TN
8* Southwest Ohio Digital Symposium, MIDDLETOWN, OH
8* .... Hamfest, GREENWOOD, SC
15* .... SE LA ARC Hamfest at SLU Univ., HAMMOND, LA
15* .... SCARA Hamfest at Civic Center, GALLATIN, TN

Is your hamfest listed correctly?

(does it still have a dreaded "*"?)

Have we missed one?

Please e-mail the editor at:

editor@sera.org

FEBRUARY, 2005
4-5 (Fri, Sat) ... Hamfest/St. ARRL Conv, JACKSON, MS
5 .... Charleston ARS Hamfest, CHARLESTON, SC
6* .... NOARS Winterfest, LORAIN/ELYRIA, OH
5-6 .... Dade RC Tropical Hamboree, MIAMI, FL
11-13 .... Orlando ARC HamCation, ORLANDO, FL
13 ...... Mansfield Mid*Winter Hamfest, MANSFIELD, OH
19 .... Hernando Co. ARA Hamfest, BROOKSVILLE, FL
TBA .... FrostFest, RICHMOND, VA
TBA .... Hamfest, ELKIN, NC

MARCH, 2005
5 ..... Charlotte County Hamfest, PORT CHARLOTTE, FL
5-6 ..... *new date/location.* DixieFest Hamfest, MEMPHIS, TN
6 .... DownEast Hmfst, Lenior County FG, KINSTON, NC
12 .... Mammoth Cave ARC Hamfest, CAVE CITY, KY
--- .... *Cancelled* - Harrison Hamfest, HARRISON, AR
11-12 .... Acadiana ARA Hamfest, RAYNE, LA
12-13 .... Hamfest/Computer Show, CHARLOTTE, NC
19 .... Kennehoochee Hamfest, MARIETTA, GA
19 .... Hamfest at Coonskin Armory, CHARLESTON, WV
19 ... Playground ARC Swapfest, FT. WALTON BEACH, FL
19-20* .... MTARS Hamfest, TULLAHOMA, TN
20 ... Toledo Mobile Radio Assn. Hamfest, MAUMEE, OH
26 .... Gulfcoast ARC HF, NEW PORT RICHEY, FL

APRIL, 2005
2* .... Fort Smith ARC Hamfest, FT. SMITH, AR
2* ... Lincoln Trail ARC Hamfest, ELIZABETHTOWN, KY
2 .... Union County ARC Hamfest, UNION, SC
TBA .... Hamfest at Bradley HS, CLEVELAND, TN
2-3 .... Baltimore ARC Hamboree, TIMONIUM, MD
3 .... Lake County ARA Hamfest, MADISON, OH
3* .... Tailgate Party, JACKSONVILLE, FL
9* .... Eastern Shore Hamfest, EASTON, MD
16 .... Catawba Valley Hamfest., MORGANTON, NC
17 .... RARS*Fest*, RALEIGH, NC
17* .... CUYAHOGA FALLS, OH
22-23* .... Little Rock Hamfest, LITTLE ROCK, AR
23* .... Chesapeake ARS Springfest, CHESAPEAKE, VA
23* .... Cherokee Capital ARS Hamfest, CALHOUN, GA
23-24* .... Gainesville ARS Hamfest, GAINESVILLE, FL
29-30 .... SE VHF Society Conference, location TBA
29-30*(Fri-Sat) ... Baton Rouge ARC Hamfest, BAKER, LA
TBA (Fri-Sat) Midwest Div. ARRL Conv, LEBANON, MO
29-30 (Fri-Sat) .... Joplin Hamfest, JOPLIN, MO
29-30 (Fri-Sat) OzarkCon QRP Conf., Ramada Inn, JOPLIN, MO
30-May 1 .... Birminghamfest, BIRMINGHAM, AL
30* ..... BARC In-The-ShadeTailgate Party, MOULTON, AL

MAY, 2005
TBA .... Upstate SC Hamfest, SPARTANBURG, SC
TBA .... Big Sandy ARC Hamfest, LOUISA, KY
1* .... Jackson County ARC Hamfest, RIPLEY, WV
TBA .... Johnson County ARC, MOUNTAIN CITY, TN
21* .... Roanoke ARS Swap Fest, WILLIAMSTON, NC
20-22 .... Dayton Hamvention, DAYTON, OH
20-21*(Fri-Sat) .... Jackson Co ARA, PASCAGOULA, MS
28* .... Hopkins Co. ARA, MADISONVILLE, KY
28* .... DurHAMfest, NG Armory, DURHAM, NC
29* .... MFMA Mem. Day Hfst, WEST FRIENDSHIP, MD

JUNE, 2005
4* .... Atlanta RC Hamfest, ATLANTA, GA
4* .... Northern KY ARC Hamfest, INDEPENDENCE, KY
TBA ...... W-S Classic at Dixie FG, WINSTON-SALEM, NC
5 .... Ole VA Hams, Hamfest at FG, MANASSAS, VA
10-11*(Fri-Sat) ... RACK Hamfest, TN ARRL, KNOXVILLE, TN
11* .... Pig Pickin'/Tailgate (exams), FRANKLIN, VA
11* ...... Dekalb Co. ARC Tailgate Outing, FT. PAYNE, AL
18* .... Tailgate Party (free), CHESTER, SC
18* .... Hamfest (free), SILVER POINT, TN
19* . Frederick ARC Father's Day Hmfst, FREDERICK, MD
25-26 .... **ARRL FIELD DAY**

JULY, 2005
2 .... Firecracker Hamfest, Civic Center, SALISBURY, NC
TBA .... Tailgate Party, GAINESVILLE, GA
10 .... Valley Forge Hfst and Cmptr Fair, KIMBERTON, PA
22-23* (fri-sat) .... Milton ARC Hamfest, MILTON, FL
16 .... Midsummer Swapfest, CARY, NC
16* .... RCARS Hamfest at Cdr Pt. Pk, DAYTON, TN
16* .... NOARSFest, WELLINGTON, OH
23* .... WCARS Hamfest, WAYNESVILLE, NC
23* .... OH-KY-IN ARS Hamfest, CINCINNATI, OH
24* .... BRATS HF and Computer Fest, TIMONIUM, MD
24* .... Portage ARC Hamfair, RANDOLPH, OH
30* .... Roanoke Valley Hamfest, (Vinton) ROANOKE, VA

SQUELCHTALE

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Tone Deaf

I couldn't help myself with the headline for this column. It just seemed too cute and natural. But the fact is that I *agree* with the SERA Board's decision to "sort of" require some form of tone squelch on all repeaters. (Those of you who start in the back of the magazine should see page 5 for details.) If you're running a carrier squelch repeater these days, and you're hearing users on a co-channel repeater now and then, you don't have much of a complaint. Nobody can expect that clear a channel anymore. Tone can help.

BUT... tone also introduces problems. Maybe more than it solves, though they're probably smaller.

We interrupt the flow of this column to head off some e-mail. Let me qualify things a bit. Nothing in this column – or SERA's action – should be interpreted to justify the bozo who runs 50 watts from a base station to talk on the local repeater. Or the lucky ham with a 90 foot tower who's only FM antenna is a high-gain omni sitting at the very top, so that's all he uses. These guys are likely to cause problems for their co-channel neighbor repeaters. They're not following good Amateur practice, and only they can take the steps needed to cure the problem they cause.

So what kind of problems can tone cause?

My catch phrase, invented on the spur of the moment at the Board meeting, is that it's "traveler hostile." I've been treading the route between Raleigh and Knoxville twice a year for a while now, with a GPS and the Street Atlas mapping program running on my laptop. I'm getting to know the repeaters along the route pretty well. But if I don't put all the repeaters, with all the tones, in memory, I can still get stuck not having a tone ready and waiting. Reading the data on my map, and programming the tone in the radio, is a good way for a solo driver to run out of pavement at an inconvenient time. I'll blow zero point zero on the breathalizer, but Officer Friendly will be justified in stopping me to see why I've been meandering across the lanes.

I've graduated to a Yaesu 8900 quad-band mobile with 800 alphanumeric memories and computer programming. I thought I'd be smart and put in all the North Carolina repeaters with all their tones. That means most channels go in at least twice, and some three or even four times, on six, two and 440.

I have outsmarted myself – it's confusing as hell. With practice, I might get the hang of it. Or I might figure out a better channel arrangement that's easier to use. I have the tones programmed, but I'm spending way too much time looking at the display figuring out what memory/frequency/tone I've got dialed in. And outside the state, it's back to square one. There's a name for me when I'm driving by Anytown, listening to a repeater with an unknown tone: SWL.

I think I'm quite the radio jock, but while I was airing my gripe at the meeting, one of the Board members quipped something about how KN4AQ needs to learn how to use his radio. How embarrassing. I was told I needed to figure out the "tone scan" feature. Thanks... I know tone scan. The picture on the cover shows the buttons on a new Icom T-90 HT, and the lower left button is tone scan. This radio does it right. Just hold that button for a second, and the radio goes looking for any tone. You don't have to change tone modes, or turn on decode or anything else. You can still hear the conversation in progress while it hunts. So if the repeater is sending tone, it will find it. Other radios aren't so easy to use. The 8900 makes me turn on tone decode (so I can't hear the conversation), then step through a couple menus, and finally press a scan button. Nothing the solo driver should be doing. Manufacturers might think about dedicating some of that precious panel space to tone scan.

And the repeater might not be on the air. And if it is it might not be sending tone. And if it isn't sending tone I might be able to hear a station on the input, but maybe not. Blah, blah, blah.

Pile it on: tone's a mask, not a cure. Sometime's a mask is the best you can do, but you, and your users, should know it. Speaking of users, user education will be fun on a newly toned repeater.

The snide comment about my own skills notwithstanding, I have little sympathy for the ham who says the radio's too complicated and can't program a tone. Just how much ammunition do you want to give the guys who complain that the hobby's been "dumbed down"? Getting your ticket isn't the end of learning, it's the start. So learn. (You Extras on the cw DX Honor Roll don't necessarily know tone all that well, either, so wipe that smirk off your face.)

Little sympathy for the ham who's radio doesn't have a tone encoder. I have an Icom 2AT with no tone. It's a museum piece on my shelf. Radio's are cheap today. If you truly can't afford one, I do feel your pain, but we can't stand still for you. No sympathy for the guy with the commercial radio who's got to pay the shop to reprogram it. You knew that going in.

Things that can help – a short list: voice ID's that announce the tone. Even better – beacon it, even if the repeater isn't in use. Sounds like a "message of interest to hams" to me, though it'll drive the locals nuts after a few weeks. Regional tone. All the repeaters in a geographic area use the same tone. Just don't make that area more than 100 miles in diameter. Make sure the repeater transmits the tone. Accurate listing in the directories. And did I mention better tone-scan on radios?

WELCOME, KG4CZU

I have accomplished a task that Wayne never did in 23 years, and I did it by accident. I have an associate editor to help put the magazine together. Chris Plumblee KG4CZU was headed to the Winston-Salem hamfest from the Raleigh area at the same time I was last June, and we hooked up on repeaters and simplex for the trip. As we talked, he mentioned that he had just graduated from Wake Forest University (where he was President of the ham club) with a degree in Communications, and experience putting together publications. Well, gee, I said, how about coming to work for the *Repeater Journal...*?

Chris is now our Associate Editor. I couldn't pay him much, so the least I could do was give him a better title than "Assistant." He edited and assembled most of the state news columns in this issue.

Chris keeps surprising me with how much he knows about ham radio. Well, he joined SERA in 2000, so he's not that new, and his dad's been a ham for a long time, so he comes by it honestly. What I'm saying is, he's been paying attention, and learning a lot. I bet he can program tone in his radio.

Welcome, Chris!

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